

## VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can

## Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

Code: VCD-AC-KQH  
Product name: VCD-AC-KQH Two-coat car paint in spray can

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: Spray Paint in metallic car colours

| Identified Uses                  | Industrial | Professional | Consumer |
|----------------------------------|------------|--------------|----------|
| Body paint in spray can          | ✓          | ✓            | ✓        |
| Uses Advised Against             |            |              |          |
| Uses other than those indicated. |            |              |          |

## 1.3. Details of the supplier of the safety data sheet

Name: E-COMIT srl  
Full address: Via G. Di Vittorio, 93-95 z.i. Terrafino  
District and Country: 50053 Empoli (Florence) Italy  
Tel.: +39 0571530262  
e-mail address of the competent person responsible for the Safety Data Sheet: info@e-comit.it

## 1.4. Emergency telephone number

For urgent inquiries refer to:

**UNITED KINGDOM - NHS (National Health Service):** For urgent help for people aged 5 or over use 111 (online). Call 111 for children under 5. Call 999 if it's a life-threatening emergency.

**IRELAND - Members of Public:** +353 (01) 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week) **Healthcare Professionals:** +353 (01) 809 2566 (24 hour service)

**AUSTRIA - Umweltbundesamt GmbH / Environment Agency** +43 664 6210336

**DENMARK - Danish Environmental Protection Agency** +45 72 54 40 00

**GERMANY - BfR Bundesinstitut für Risikobewertung / German Federal Institute for Risk Assessment** - +49-30-18412-0

**NETHERLANDS - National Poisons Information Center / University Medical Center Utrecht** +31 88 75 585 61

**ROMANIA - The Toxicology Information Center from the Emergency Clinic Hospital of Bucharest** - +40215992300

**LUXEMBOURG - Centre Antipoisons (BE) on behalf of Ministère-Direction de la Santé** +320 22649636/+352 24785551

**GREECE - Hellenic Republic Independent Authority for Public Revenue D.G. of the General Chemical State Laboratory Directorate of Energy, Industrial and Chemical Products** - +302106479250, +302106479450

## SECTION 2. Hazards identification

## 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

## VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can

## SECTION 2. Hazards identification ... / &gt;&gt;

|                                                                |      |                                                                    |
|----------------------------------------------------------------|------|--------------------------------------------------------------------|
| Aerosol, category 1                                            | H222 | Extremely flammable aerosol.                                       |
|                                                                | H229 | Pressurised container: may burst if heated.                        |
| Acute toxicity, category 4                                     | H332 | Harmful if inhaled.                                                |
| Aspiration hazard, category 1                                  | H304 | May be fatal if swallowed and enters airways.                      |
| Specific target organ toxicity - repeated exposure, category 2 | H373 | May cause damage to organs through prolonged or repeated exposure. |
| Eye irritation, category 2                                     | H319 | Causes serious eye irritation.                                     |
| Skin irritation, category 2                                    | H315 | Causes skin irritation.                                            |
| Specific target organ toxicity - single exposure, category 3   | H335 | May cause respiratory irritation.                                  |
| Specific target organ toxicity - single exposure, category 3   | H336 | May cause drowsiness or dizziness.                                 |

## 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Danger

Hazard statements:

|        |                                                                        |
|--------|------------------------------------------------------------------------|
| H222   | Extremely flammable aerosol.                                           |
| H229   | Pressurised container: may burst if heated.                            |
| H332   | Harmful if inhaled.                                                    |
| H373   | May cause damage to organs through prolonged or repeated exposure.     |
| H319   | Causes serious eye irritation.                                         |
| H315   | Causes skin irritation.                                                |
| H335   | May cause respiratory irritation.                                      |
| H336   | May cause drowsiness or dizziness.                                     |
| EUH208 | Contains: 4-Morpholincarbaldehyde<br>May produce an allergic reaction. |

Precautionary statements:

|           |                                                                                                |
|-----------|------------------------------------------------------------------------------------------------|
| P210      | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P251      | Do not pierce or burn, even after use.                                                         |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.                   |
| P501      | Dispose of contents / container to ...                                                         |
| P102      | Keep out of reach of children.                                                                 |
| P101      | If medical advice is needed, have product container or label at hand.                          |
| P211      | Do not spray on an open flame or other ignition source.                                        |

**Contains:** XYLENE (MIXTURE OF ISOMERS)  
N-BUTYL ACETATE  
ETHYL ACETATE  
ACETONE

Statements on the aspiration toxicity classification were not included in the label elements, based on section 1.3.3. of Annex I to CLP.

VOC (Directive 2004/42/EC) :

Special finishes - All types.

VOC given in g/litre of product in a ready-to-use condition :

765,95

Limit value:

840,00

## 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

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The product does not contain substances with endocrine disrupting properties in concentration  $\geq 0.1\%$ .

## SECTION 3. Composition/information on ingredients

## 3.2. Mixtures

Contains:

| Identification                     | x = Conc. %         | Classification (EC) 1272/2008 (CLP)                                                                                                                                                                                                                                                                              |
|------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dimethyl ether</b>              |                     |                                                                                                                                                                                                                                                                                                                  |
| INDEX 603-019-00-8                 | $45 \leq x < 47,5$  | Flam. Gas 1A H220, Press. Gas H280                                                                                                                                                                                                                                                                               |
| EC 204-065-8                       |                     |                                                                                                                                                                                                                                                                                                                  |
| CAS 115-10-6                       |                     |                                                                                                                                                                                                                                                                                                                  |
| <b>XYLENE (MIXTURE OF ISOMERS)</b> |                     |                                                                                                                                                                                                                                                                                                                  |
| INDEX 601-022-00-9                 | $12 \leq x < 13,5$  | Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3 H412, Classification note according to Annex VI to the CLP Regulation: C<br>LD50 Dermal: 2000 mg/kg, ATE Inhalation mists/powders: 1,5 mg/l  |
| EC 215-535-7                       |                     |                                                                                                                                                                                                                                                                                                                  |
| CAS 1330-20-7                      |                     |                                                                                                                                                                                                                                                                                                                  |
| <b>N-BUTYL ACETATE</b>             |                     |                                                                                                                                                                                                                                                                                                                  |
| INDEX 607-025-00-1                 | $10,5 \leq x < 12$  | Flam. Liq. 3 H226, STOT SE 3 H336, EUH066                                                                                                                                                                                                                                                                        |
| EC 204-658-1                       |                     |                                                                                                                                                                                                                                                                                                                  |
| CAS 123-86-4                       |                     |                                                                                                                                                                                                                                                                                                                  |
| REACH Reg. 01-2119485493-29        |                     |                                                                                                                                                                                                                                                                                                                  |
| <b>ETHYL ACETATE</b>               |                     |                                                                                                                                                                                                                                                                                                                  |
| INDEX 607-022-00-5                 | $8 \leq x < 9$      | Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066                                                                                                                                                                                                                                                     |
| EC 205-500-4                       |                     |                                                                                                                                                                                                                                                                                                                  |
| CAS 141-78-6                       |                     |                                                                                                                                                                                                                                                                                                                  |
| REACH Reg. 01-2119475103-46        |                     |                                                                                                                                                                                                                                                                                                                  |
| <b>ACETONE</b>                     |                     |                                                                                                                                                                                                                                                                                                                  |
| INDEX 606-001-00-8                 | $7 \leq x < 8$      | Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066                                                                                                                                                                                                                                                     |
| EC 200-662-2                       |                     |                                                                                                                                                                                                                                                                                                                  |
| CAS 67-64-1                        |                     |                                                                                                                                                                                                                                                                                                                  |
| REACH Reg. 01-2119471330-49        |                     |                                                                                                                                                                                                                                                                                                                  |
| <b>ETHYLBENZENE</b>                |                     |                                                                                                                                                                                                                                                                                                                  |
| INDEX 601-023-00-4                 | $2,5 \leq x < 3$    | Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Aquatic Chronic 3 H412<br>ATE Inhalation mists/powders: 1,5 mg/l                                                                                                                                                                         |
| EC 202-849-4                       |                     |                                                                                                                                                                                                                                                                                                                  |
| CAS 100-41-4                       |                     |                                                                                                                                                                                                                                                                                                                  |
| REACH Reg. 01-2119489370-35        |                     |                                                                                                                                                                                                                                                                                                                  |
| <b>XYLENE</b>                      |                     |                                                                                                                                                                                                                                                                                                                  |
| INDEX 601-022-00-9                 | $1,5 \leq x < 2$    | Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3 H412, Classification note according to Annex VI to the CLP Regulation: C<br>LD50 Dermal: >1700 mg/kg, ATE Inhalation mists/powders: 1,5 mg/l |
| EC 215-535-7                       |                     |                                                                                                                                                                                                                                                                                                                  |
| CAS 1330-20-7                      |                     |                                                                                                                                                                                                                                                                                                                  |
| REACH Reg. 01-2119488216-32        |                     |                                                                                                                                                                                                                                                                                                                  |
| <b>ISOBUTANOL</b>                  |                     |                                                                                                                                                                                                                                                                                                                  |
| INDEX 603-108-00-1                 | $0,6 \leq x < 0,7$  | Flam. Liq. 3 H226, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, STOT SE 3 H336                                                                                                                                                                                                                           |
| EC 201-148-0                       |                     |                                                                                                                                                                                                                                                                                                                  |
| CAS 78-83-1                        |                     |                                                                                                                                                                                                                                                                                                                  |
| REACH Reg. 01-2119484609-23        |                     |                                                                                                                                                                                                                                                                                                                  |
| <b>pentyl acetate</b>              |                     |                                                                                                                                                                                                                                                                                                                  |
| INDEX 607-130-00-2                 | $0,6 \leq x < 0,7$  | Flam. Liq. 3 H226                                                                                                                                                                                                                                                                                                |
| EC 211-047-3                       |                     |                                                                                                                                                                                                                                                                                                                  |
| CAS 628-63-7                       |                     |                                                                                                                                                                                                                                                                                                                  |
| <b>2-Methylbutyl acetate</b>       |                     |                                                                                                                                                                                                                                                                                                                  |
| INDEX                              | $0,3 \leq x < 0,35$ | Flam. Liq. 3 H226                                                                                                                                                                                                                                                                                                |
| EC 210-843-8                       |                     |                                                                                                                                                                                                                                                                                                                  |
| CAS 624-41-9                       |                     |                                                                                                                                                                                                                                                                                                                  |
| <b>4-Morpholincarbaldehyde</b>     |                     |                                                                                                                                                                                                                                                                                                                  |
| INDEX                              | $0,05 \leq x < 0,1$ | Skin Sens. 1B H317                                                                                                                                                                                                                                                                                               |
| EC 224-518-3                       |                     |                                                                                                                                                                                                                                                                                                                  |
| CAS 4394-85-8                      |                     |                                                                                                                                                                                                                                                                                                                  |
| REACH Reg. 01-2119987993-12        |                     |                                                                                                                                                                                                                                                                                                                  |

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## SECTION 3. Composition/information on ingredients ... / &gt;&gt;

**TOLUENE**

INDEX 601-021-00-3 0 &lt; x &lt; 0,05

Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 3 H412

EC 203-625-9

CAS 108-88-3

REACH Reg. 01-2119471310-51

**Hydrocarbons, C9-C11, nalkanes, isoalkanes, cyclics, <2% aromatics**

INDEX 919-857-5 0 &lt; x &lt; 0,05

Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336

EC 919-857-5

CAS

REACH Reg. 01-2119463258-33

**isopentyl acetate**

INDEX 607-130-00-2 0 &lt; x &lt; 0,05

Flam. Liq. 3 H226, Aquatic Chronic 3 H412

EC 204-662-3

CAS 123-92-2

**FORMALDEHYDE**

INDEX 605-001-00-5 0 &lt; x &lt; 0,05

Carc. 1B H350, Muta. 2 H341, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Classification note according to Annex VI to the CLP Regulation: B, D Skin Corr. 1B H314: ≥ 25%, Skin Irrit. 2 H315: ≥ 5% - &lt; 25%, Skin Sens. 1 H317: ≥ 0,2%, Eye Dam. 1 H318: ≥ 25%, Eye Irrit. 2 H319: ≥ 5% - &lt; 25% LD50 Oral: 100 mg/kg, LD50 Dermal: 270 mg/kg, ATE Inhalation mists/powders: 0,501 mg/l

EC 200-001-8

CAS 50-00-0

REACH Reg. 01-2119488953-20

**N-BUTYL ACRYLATE**

INDEX 607-062-00-3 0 &lt; x &lt; 0,05

Flam. Liq. 3 H226, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1 H317, Aquatic Chronic 3 H412, Classification note according to Annex VI to the CLP Regulation: D ATE Inhalation mists/powders: 1,5 mg/l

EC 205-480-7

CAS 141-32-2

REACH Reg. 01-2119453155-43

**FORMALDEHYDE**

INDEX 605-001-00-5 0 &lt; x &lt; 0,05

Carc. 1B H350, Muta. 2 H341, Acute Tox. 2 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Skin Sens. 1 H317, Classification note according to Annex VI to the CLP Regulation: B, D Skin Corr. 1B H314: ≥ 25%, Skin Irrit. 2 H315: ≥ 5% - &lt; 25%, Skin Sens. 1 H317: ≥ 0,2%, Eye Dam. 1 H318: ≥ 25%, Eye Irrit. 2 H319: ≥ 5% - &lt; 25%, STOT SE 3 H335: ≥ 5% LD50 Oral: 100 mg/kg, LD50 Dermal: 270 mg/kg, ATE Inhalation mists/powders: 0,051 mg/l

EC 200-001-8

CAS 50-00-0

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants: 45,16 %

## SECTION 4. First aid measures

## 4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

**EYES:** Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

**SKIN:** Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.

**INGESTION:** Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

**INHALATION:** Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal

**VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can****SECTION 4. First aid measures ... / >>**

protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

**4.2. Most important symptoms and effects, both acute and delayed**

Specific information on symptoms and effects caused by the product are unknown.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

**4.3. Indication of any immediate medical attention and special treatment needed**

Call a POISON CENTRE / doctor / . . . if you feel unwell.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

**SECTION 5. Firefighting measures****5.1. Extinguishing media**

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

**5.2. Special hazards arising from the substance or mixture**

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

**5.3. Advice for firefighters**

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped.

Wear protective gloves / protective clothing / eye protection / face protection.

**6.2. Environmental precautions**

Do not disperse in the environment.

**6.3. Methods and material for containment and cleaning up**

Use inert absorbent material to soak up leaked product. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections**

Any information on personal protection and disposal is given in sections 8 and 13.

**SECTION 7. Handling and storage****7.1. Precautions for safe handling**

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or

|                                                                                                                                                          |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   |                        |               |                  |  |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|---------------------------------------------------------------------------------------------------|------------------------|---------------|------------------|--|----|
| E-COMIT srl                                                                                                                                              |                      |                                                                                                                                                                                                                                                                                            |               |                  | Revision nr.1<br>Dated 15/05/2024<br>First compilation<br>Printed on 04/02/2026<br>Page n. 6 / 24 |                        |               |                  |  | EN |
| VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can                                                                                                  |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   |                        |               |                  |  |    |
| SECTION 7. Handling and storage ... / >>                                                                                                                 |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   |                        |               |                  |  |    |
| smoke during use. Do not breathe spray.                                                                                                                  |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   |                        |               |                  |  |    |
| 7.2. Conditions for safe storage, including any incompatibilities                                                                                        |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   |                        |               |                  |  |    |
| Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources. |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   |                        |               |                  |  |    |
| 7.3. Specific end use(s)                                                                                                                                 |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   |                        |               |                  |  |    |
| Information not available                                                                                                                                |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   |                        |               |                  |  |    |
| SECTION 8. Exposure controls/personal protection                                                                                                         |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   |                        |               |                  |  |    |
| 8.1. Control parameters                                                                                                                                  |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   |                        |               |                  |  |    |
| Regulatory references:                                                                                                                                   |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   |                        |               |                  |  |    |
| ESP                                                                                                                                                      | España               | Límites de exposición profesional para agentes químicos en España 2023                                                                                                                                                                                                                     |               |                  |                                                                                                   |                        |               |                  |  |    |
| FRA                                                                                                                                                      | France               | Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021                                                                                                                                                                         |               |                  |                                                                                                   |                        |               |                  |  |    |
| ITA                                                                                                                                                      | Italia               | Decreto Legislativo 9 Aprile 2008, n.81                                                                                                                                                                                                                                                    |               |                  |                                                                                                   |                        |               |                  |  |    |
| GBR                                                                                                                                                      | United Kingdom       | EH40/2005 Workplace exposure limits (Fourth Edition 2020)                                                                                                                                                                                                                                  |               |                  |                                                                                                   |                        |               |                  |  |    |
| EU                                                                                                                                                       | OEL EU               | Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. |               |                  |                                                                                                   |                        |               |                  |  |    |
|                                                                                                                                                          | TLV-ACGIH            | ACGIH 2023                                                                                                                                                                                                                                                                                 |               |                  |                                                                                                   |                        |               |                  |  |    |
| Hydrocarbons, C9-C11, nalkanes, isoalkanes, cyclics, <2% aromatics                                                                                       |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   |                        |               |                  |  |    |
| Threshold Limit Value                                                                                                                                    |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   |                        |               |                  |  |    |
| Type                                                                                                                                                     | Country              | TWA/8h                                                                                                                                                                                                                                                                                     |               | STEL/15min       |                                                                                                   | Remarks / Observations |               |                  |  |    |
|                                                                                                                                                          |                      | mg/m3                                                                                                                                                                                                                                                                                      | ppm           | mg/m3            | ppm                                                                                               |                        |               |                  |  |    |
| OEL                                                                                                                                                      | EU                   | 116                                                                                                                                                                                                                                                                                        | 20            |                  |                                                                                                   |                        |               |                  |  |    |
| Health - Derived no-effect level - DNEL / DMEL                                                                                                           |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   |                        |               |                  |  |    |
| Route of exposure                                                                                                                                        | Effects on consumers |                                                                                                                                                                                                                                                                                            |               |                  | Effects on workers                                                                                |                        |               |                  |  |    |
|                                                                                                                                                          | Acute local          | Acute systemic                                                                                                                                                                                                                                                                             | Chronic local | Chronic systemic | Acute local                                                                                       | Acute systemic         | Chronic local | Chronic systemic |  |    |
| Inhalation                                                                                                                                               |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   | 1500                   |               | 871              |  |    |
|                                                                                                                                                          |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   | mg/kg                  |               | mg/kg            |  |    |
| Skin                                                                                                                                                     |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   | 300                    |               | 208              |  |    |
|                                                                                                                                                          |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   | mg/kg                  |               | mg/kg            |  |    |
| Dimethyl ether                                                                                                                                           |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   |                        |               |                  |  |    |
| Threshold Limit Value                                                                                                                                    |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   |                        |               |                  |  |    |
| Type                                                                                                                                                     | Country              | TWA/8h                                                                                                                                                                                                                                                                                     |               | STEL/15min       |                                                                                                   | Remarks / Observations |               |                  |  |    |
|                                                                                                                                                          |                      | mg/m3                                                                                                                                                                                                                                                                                      | ppm           | mg/m3            | ppm                                                                                               |                        |               |                  |  |    |
| OEL                                                                                                                                                      | EU                   | 1920                                                                                                                                                                                                                                                                                       | 1000          |                  |                                                                                                   |                        |               |                  |  |    |
| Predicted no-effect concentration - PNEC                                                                                                                 |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   |                        |               |                  |  |    |
| Normal value in fresh water                                                                                                                              |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   | 0,155                  | mg/l          |                  |  |    |
| Normal value in marine water                                                                                                                             |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   | 0,016                  | mg/l          |                  |  |    |
| Normal value for fresh water sediment                                                                                                                    |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   | 0,681                  | mg/l          |                  |  |    |
| Normal value for marine water sediment                                                                                                                   |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   | 0,069                  | mg/l          |                  |  |    |
| Normal value for water, intermittent release                                                                                                             |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   | 1,549                  | mg/l          |                  |  |    |
| Normal value of STP microorganisms                                                                                                                       |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   | 160                    | mg/l          |                  |  |    |
| Normal value for the terrestrial compartment                                                                                                             |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   | 0,045                  | mg/l          |                  |  |    |
| isopentyl acetate                                                                                                                                        |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   |                        |               |                  |  |    |
| Threshold Limit Value                                                                                                                                    |                      |                                                                                                                                                                                                                                                                                            |               |                  |                                                                                                   |                        |               |                  |  |    |
| Type                                                                                                                                                     | Country              | TWA/8h                                                                                                                                                                                                                                                                                     |               | STEL/15min       |                                                                                                   | Remarks / Observations |               |                  |  |    |
|                                                                                                                                                          |                      | mg/m3                                                                                                                                                                                                                                                                                      | ppm           | mg/m3            | ppm                                                                                               |                        |               |                  |  |    |
| OEL                                                                                                                                                      | EU                   | 270                                                                                                                                                                                                                                                                                        |               |                  | 50                                                                                                |                        |               |                  |  |    |

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## VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can

## SECTION 8. Exposure controls/personal protection ... / &gt;&gt;

## pentyl acetate

## Threshold Limit Value

| Type | Country | TWA/8h | STEL/15min | Remarks / Observations |     |
|------|---------|--------|------------|------------------------|-----|
|      |         | mg/m3  | ppm        | mg/m3                  | ppm |
| OEL  | EU      | 270    | 50         | 540                    | 100 |

## Predicted no-effect concentration - PNEC

|                                              |        |       |
|----------------------------------------------|--------|-------|
| Normal value in fresh water                  | 0,041  | mg/l  |
| Normal value in marine water                 | 0,0041 | mg/l  |
| Normal value for fresh water sediment        | 0,286  | mg/kg |
| Normal value for marine water sediment       | 0,0286 | mg/kg |
| Normal value of STP microorganisms           | 72     | mg/l  |
| Normal value for the terrestrial compartment | 0,033  | mg/kg |

## Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |          |         |          | Effects on workers |          |         |          |
|-------------------|----------------------|----------|---------|----------|--------------------|----------|---------|----------|
|                   | Acute                | Acute    | Chronic | Chronic  | Acute local        | Acute    | Chronic | Chronic  |
|                   | local                | systemic | local   | systemic |                    | systemic | local   | systemic |
| Inhalation        |                      |          |         |          |                    |          |         | 266,226  |
|                   |                      |          |         |          |                    |          |         | mg/kg    |
| Skin              |                      |          |         |          |                    |          |         | 31,55    |
|                   |                      |          |         |          |                    |          |         | mg/kg    |

## 2-Methylbutyl acetate

## Threshold Limit Value

| Type | Country | TWA/8h | STEL/15min | Remarks / Observations |     |
|------|---------|--------|------------|------------------------|-----|
|      |         | mg/m3  | ppm        | mg/m3                  | ppm |
| OEL  | EU      | 270    | 50         | 540                    | 100 |

## XYLENE

## Threshold Limit Value

| Type      | Country | TWA/8h | STEL/15min | Remarks / Observations |     |
|-----------|---------|--------|------------|------------------------|-----|
|           |         | mg/m3  | ppm        | mg/m3                  | ppm |
| VLA       | ESP     | 221    | 50         | 442                    | 100 |
| VLEP      | FRA     | 221    | 50         | 442                    | 100 |
| VLEP      | ITA     | 221    | 50         | 442                    | 100 |
| WEL       | GBR     | 220    | 50         | 441                    | 100 |
| OEL       | EU      | 221    | 50         | 442                    | 100 |
| TLV-ACGIH |         |        | 20         |                        |     |

## Predicted no-effect concentration - PNEC

|                                              |      |       |
|----------------------------------------------|------|-------|
| Normal value in fresh water                  | 327  | mg/l  |
| Normal value in marine water                 | 327  | mg/l  |
| Normal value for fresh water sediment        | 1246 | mg/l  |
| Normal value for marine water sediment       | 1246 | mg/l  |
| Normal value of STP microorganisms           | 658  | mg/l  |
| Normal value for the terrestrial compartment | 231  | mg/kg |

## Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |          |         |          | Effects on workers |          |         |          |
|-------------------|----------------------|----------|---------|----------|--------------------|----------|---------|----------|
|                   | Acute                | Acute    | Chronic | Chronic  | Acute local        | Acute    | Chronic | Chronic  |
|                   | local                | systemic | local   | systemic |                    | systemic | local   | systemic |
| Inhalation        |                      |          |         |          |                    | 442      | 221     | 221      |
|                   |                      |          |         |          |                    | mg/kg    | mg/kg   | mg/kg    |
| Skin              |                      |          |         |          |                    |          |         | 3182     |
|                   |                      |          |         |          |                    |          |         | mg/kg    |

## ISOBUTANOL

## Threshold Limit Value

| Type      | Country | TWA/8h | STEL/15min | Remarks / Observations |     |
|-----------|---------|--------|------------|------------------------|-----|
|           |         | mg/m3  | ppm        | mg/m3                  | ppm |
| VLA       | ESP     | 154    | 50         |                        |     |
| VLEP      | FRA     | 150    | 50         |                        |     |
| WEL       | GBR     | 154    | 50         | 231                    | 75  |
| TLV-ACGIH |         | 152    | 50         |                        |     |

## VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can

## SECTION 8. Exposure controls/personal protection ... / &gt;&gt;

## FORMALDEHYDE

## Threshold Limit Value

| Type      | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
|           |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| VLA       | ESP     | 0,37   | 0,3 | 0,74       | 0,6 |                        |
| VLEP      | FRA     | 0,37   | 0,3 | 0,74       | 0,6 |                        |
| VLEP      | ITA     | 0,37   | 0,3 | 0,74       | 0,6 |                        |
| WEL       | GBR     | 2,5    | 2   | 2,5        | 2   |                        |
| OEL       | EU      | 0,37   | 0,3 | 0,74       | 0,6 |                        |
| TLV-ACGIH |         |        | 0,1 |            | 0,3 |                        |

## XYLENE (MIXTURE OF ISOMERS)

## Threshold Limit Value

| Type      | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
|           |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| VLA       | ESP     | 221    | 50  | 442        | 100 | SKIN                   |
| VLEP      | FRA     | 221    | 50  | 442        | 100 | SKIN                   |
| VLEP      | ITA     | 221    | 50  | 442        | 100 | SKIN                   |
| WEL       | GBR     | 220    | 50  | 441        | 100 | SKIN                   |
| OEL       | EU      | 221    | 50  | 442        | 100 | SKIN                   |
| TLV-ACGIH |         |        | 20  |            |     |                        |

## Predicted no-effect concentration - PNEC

|                                              |       |       |
|----------------------------------------------|-------|-------|
| Normal value in fresh water                  | 0,327 | mg/l  |
| Normal value in marine water                 | 0,327 | mg/l  |
| Normal value for fresh water sediment        | 12,46 | mg/kg |
| Normal value for marine water sediment       | 12,46 | mg/kg |
| Normal value for water, intermittent release | 0,327 | mg/l  |
| Normal value of STP microorganisms           | 6,58  | mg/l  |
| Normal value for the terrestrial compartment | 2,31  | mg/kg |

## Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |                | Chronic local | Chronic systemic | Effects on workers |                |               |                  |
|-------------------|----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
|                   | Acute local          | Acute systemic |               |                  | Acute local        | Acute systemic | Chronic local | Chronic systemic |
| Inhalation        |                      |                |               |                  | 442<br>mg/m3       | 442<br>mg/m3   |               | 221<br>mg/m3     |
| Skin              |                      |                |               |                  |                    |                |               | 221<br>mg/kg/d   |

## TOLUENE

## Threshold Limit Value

| Type      | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
|           |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| VLA       | ESP     | 192    | 50  | 384        | 100 | SKIN                   |
| VLEP      | FRA     | 76,8   | 20  | 384        | 100 | SKIN                   |
| VLEP      | ITA     | 192    | 50  |            |     | SKIN                   |
| WEL       | GBR     | 191    | 50  | 384        | 100 | SKIN                   |
| OEL       | EU      | 192    | 50  | 384        | 100 | SKIN                   |
| TLV-ACGIH |         |        | 20  |            |     |                        |

## Predicted no-effect concentration - PNEC

|                                              |         |       |
|----------------------------------------------|---------|-------|
| Normal value in fresh water                  | 0,074   | mg/l  |
| Normal value in marine water                 | 0,0074  | mg/l  |
| Normal value for fresh water sediment        | 1,78    | mg/l  |
| Normal value for marine water sediment       | 0,178   | mg/l  |
| Normal value for water, intermittent release | 0,00378 | mg/l  |
| Normal value of STP microorganisms           | 0,84    | mg/l  |
| Normal value for the terrestrial compartment | 0,313   | mg/kg |

## Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |                | Chronic local | Chronic systemic | Effects on workers |                |               |                  |
|-------------------|----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
|                   | Acute local          | Acute systemic |               |                  | Acute local        | Acute systemic | Chronic local | Chronic systemic |
| Oral              |                      |                |               | 8,13<br>mg/kg/d  |                    |                |               | 8,13             |
| Inhalation        | 226<br>mg/m3         | 226<br>mg/m3   | 56,5<br>mg/m3 | 56,5<br>mg/m3    | 384<br>mg/m3       | 384<br>mg/m3   | 192<br>mg/m3  | 192<br>mg/m3     |
| Skin              |                      |                |               | 226<br>mg/kg/d   |                    |                |               | 384<br>mg/kg/d   |

## VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can

## SECTION 8. Exposure controls/personal protection ... / &gt;&gt;

## ETHYLBENZENE

## Threshold Limit Value

| Type      | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
|           |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| VLA       | ESP     | 441    | 100 | 884        | 200 | SKIN                   |
| VLEP      | FRA     | 88,4   | 20  | 442        | 100 | SKIN                   |
| VLEP      | ITA     | 442    | 100 | 884        | 200 | SKIN                   |
| WEL       | GBR     | 441    | 100 | 552        | 125 | SKIN                   |
| OEL       | EU      | 442    | 100 | 884        | 200 | SKIN                   |
| TLV-ACGIH |         | 87     | 20  |            |     |                        |

## Predicted no-effect concentration - PNEC

|                                              |      |       |
|----------------------------------------------|------|-------|
| Normal value in fresh water                  | 0,1  | mg/l  |
| Normal value in marine water                 | 0,01 | mg/l  |
| Normal value for fresh water sediment        | 13,7 | mg/l  |
| Normal value for marine water sediment       | 1,37 | mg/l  |
| Normal value for water, intermittent release | 0,1  | mg/l  |
| Normal value of STP microorganisms           | 9,6  | mg/l  |
| Normal value for the terrestrial compartment | 2,68 | mg/kg |

## Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |                | Chronic local | Chronic systemic | Effects on workers |                |               |                  |
|-------------------|----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
|                   | Acute local          | Acute systemic |               |                  | Acute local        | Acute systemic | Chronic local | Chronic systemic |
| Oral              |                      | 1,6            |               | 1,6              |                    |                |               |                  |
|                   |                      |                |               | mg/kg bw/d       |                    |                |               |                  |
| Inhalation        |                      |                |               | 15               | 293                | 293            |               | 77               |
|                   |                      |                |               | mg/m3            | mg/m3              |                |               | mg/m3            |
| Skin              |                      |                |               |                  |                    |                |               | 180              |
|                   |                      |                |               |                  |                    |                |               | mg/kg/d          |

## FORMALDEHYDE

## Threshold Limit Value

| Type      | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
|           |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| VLA       | ESP     | 0,37   | 0,3 | 0,74       | 0,6 |                        |
| VLEP      | FRA     | 0,37   | 0,3 | 0,74       | 0,6 |                        |
| VLEP      | ITA     | 0,37   | 0,3 | 0,74       | 0,6 |                        |
| WEL       | GBR     | 2,5    | 2   | 2,5        | 2   |                        |
| OEL       | EU      | 0,37   | 0,3 | 0,74       | 0,6 |                        |
| TLV-ACGIH |         |        | 0,1 |            | 0,3 |                        |

## ACETONE

## Threshold Limit Value

| Type      | Country | TWA/8h |     | STEL/15min |      | Remarks / Observations |
|-----------|---------|--------|-----|------------|------|------------------------|
|           |         | mg/m3  | ppm | mg/m3      | ppm  |                        |
| VLA       | ESP     | 1210   | 500 |            |      |                        |
| VLEP      | FRA     | 1210   | 500 | 2420       | 1000 |                        |
| VLEP      | ITA     | 1210   | 500 |            |      |                        |
| WEL       | GBR     | 1210   | 500 | 3620       | 1500 |                        |
| OEL       | EU      | 1210   | 500 |            |      |                        |
| TLV-ACGIH |         |        | 250 |            | 500  |                        |

## Predicted no-effect concentration - PNEC

|                                        |      |       |
|----------------------------------------|------|-------|
| Normal value in fresh water            | 10,6 | mg/l  |
| Normal value in marine water           | 1,06 | mg/l  |
| Normal value for fresh water sediment  | 30,4 | mg/kg |
| Normal value for marine water sediment | 3,04 | mg/kg |

## Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |                | Chronic local | Chronic systemic | Effects on workers |                |               |                  |
|-------------------|----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
|                   | Acute local          | Acute systemic |               |                  | Acute local        | Acute systemic | Chronic local | Chronic systemic |
| Oral              |                      |                |               | 62               |                    |                |               | 62               |
|                   |                      |                |               | mg/kg/d          |                    |                |               |                  |
| Inhalation        |                      |                |               | 200              | 2420               |                |               | 1210             |
|                   |                      |                |               | mg/m3            | mg/m3              |                |               | mg/m3            |
| Skin              |                      |                |               | 62               |                    |                |               | 186              |
|                   |                      |                |               | mg/kg/d          |                    |                |               | mg/kg/d          |

## VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can

## SECTION 8. Exposure controls/personal protection ... / &gt;&gt;

## ETHYL ACETATE

## Threshold Limit Value

| Type      | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |  |  |
|-----------|---------|--------|-----|------------|-----|------------------------|--|--|
|           |         | mg/m3  | ppm | mg/m3      | ppm |                        |  |  |
| VLA       | ESP     | 734    | 200 | 1468       | 400 |                        |  |  |
| VLEP      | FRA     | 734    | 200 | 1468       | 400 |                        |  |  |
| VLEP      | ITA     | 734    | 200 | 1468       | 400 |                        |  |  |
| WEL       | GBR     | 734    | 200 | 1468       | 400 |                        |  |  |
| OEL       | EU      | 734    | 200 | 1468       | 400 |                        |  |  |
| TLV-ACGIH |         | 1441   | 400 |            |     |                        |  |  |

## Predicted no-effect concentration - PNEC

|                                              |       |       |
|----------------------------------------------|-------|-------|
| Normal value in fresh water                  | 0,26  | mg/l  |
| Normal value in marine water                 | 0,026 | mg/l  |
| Normal value for fresh water sediment        | 1,25  | mg/kg |
| Normal value for marine water sediment       | 0,125 | mg/kg |
| Normal value of STP microorganisms           | 650   | mg/l  |
| Normal value for the terrestrial compartment | 0,24  | mg/kg |

## Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |                | Chronic local | Chronic systemic | Effects on workers |                |               |                  |
|-------------------|----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
|                   | Acute local          | Acute systemic |               |                  | Acute local        | Acute systemic | Chronic local | Chronic systemic |
| Inhalation        |                      |                |               |                  | 1468<br>mg/kg      | 1468<br>mg/kg  | 734<br>mg/kg  | 734<br>mg/kg     |
| Skin              |                      |                |               |                  |                    |                |               | 63<br>mg/kg      |

## N-BUTYL ACETATE

## Threshold Limit Value

| Type      | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |  |  |
|-----------|---------|--------|-----|------------|-----|------------------------|--|--|
|           |         | mg/m3  | ppm | mg/m3      | ppm |                        |  |  |
| VLA       | ESP     | 241    | 50  | 723        | 150 |                        |  |  |
| VLEP      | FRA     | 241    | 50  | 723        | 150 |                        |  |  |
| VLEP      | ITA     | 241    | 50  | 723        | 150 |                        |  |  |
| WEL       | GBR     | 724    | 150 | 966        | 200 |                        |  |  |
| OEL       | EU      | 241    | 50  | 723        | 150 |                        |  |  |
| TLV-ACGIH |         |        | 50  |            | 150 |                        |  |  |

## Predicted no-effect concentration - PNEC

|                                              |        |         |
|----------------------------------------------|--------|---------|
| Normal value in fresh water                  | 0,18   | mg/l    |
| Normal value in marine water                 | 0,018  | mg/l    |
| Normal value for fresh water sediment        | 0,981  | mg/kg/d |
| Normal value for marine water sediment       | 0,0981 | mg/kg/d |
| Normal value for water, intermittent release | 0,36   | mg/l    |
| Normal value of STP microorganisms           | 35,6   | mg/l    |
| Normal value for the terrestrial compartment | 0,0903 | mg/kg/d |

## Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |                 | Chronic local | Chronic systemic | Effects on workers |                     |               |                     |
|-------------------|----------------------|-----------------|---------------|------------------|--------------------|---------------------|---------------|---------------------|
|                   | Acute local          | Acute systemic  |               |                  | Acute local        | Acute systemic      | Chronic local | Chronic systemic    |
| Oral              |                      | 2<br>mg/kg bw/d |               | 2<br>mg/kg bw/d  |                    |                     |               |                     |
| Inhalation        | 300<br>mg/m3         | 300<br>mg/m3    | 35,7<br>mg/m3 | 35,7<br>mg/m3    | 600<br>mg/m3       | 960<br>mg/kg        | 300<br>mg/m3  | 480<br>mg/kg        |
| Skin              |                      | 6<br>mg/kg/d    |               |                  |                    | 11<br>mg/kg<br>bw/d |               | 11<br>mg/kg<br>bw/d |

## N-BUTYL ACRYLATE

## Threshold Limit Value

| Type      | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |  |  |
|-----------|---------|--------|-----|------------|-----|------------------------|--|--|
|           |         | mg/m3  | ppm | mg/m3      | ppm |                        |  |  |
| VLA       | ESP     | 11     | 2   | 53         | 10  |                        |  |  |
| VLEP      | FRA     | 11     | 2   | 53         | 10  |                        |  |  |
| VLEP      | ITA     | 11     | 2   | 53         | 10  |                        |  |  |
| WEL       | GBR     | 5      | 1   | 26         | 5   |                        |  |  |
| OEL       | EU      | 11     | 2   | 53         | 10  |                        |  |  |
| TLV-ACGIH |         | 10     | 2   |            |     |                        |  |  |

Legend:

## VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can

## SECTION 8. Exposure controls/personal protection ... / &gt;&gt;

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

Dimethyl ether

Derived no-effect level (DNEL)

type of application (use): worker

route of exposure: inhalation

health effects: chronic effects, systemic toxicity

DNEL value: 1,894 mg/m3

type of application (use): consumer

route of exposure: inhalation

health effects: chronic effects, systemic toxicity

DNEL value: 471 mg/m3

pentyl acetate

Target: Occasional emission - Value: 0.41 mg/l

XYLENE

Target: Occasional emission - Value: 0.327 mg/l

XYLENE (MIXTURE OF ISOMERS)

Components with biological limit values:

1.5 g/g creatinine

Matrix: urine

Pickup time: at the end of the shift

Biological indicator of exposure: methylippuric acid

TOLUENE

Components with biological limit values:

IBE (Italy):

0.02 mg/l

Matrix: blood

Collection time: first last shift of the working week

Biological indicator of exposure: toluene

0.03 mg/l

Matrix: urine

Pickup time: at the end of the shift

Biological indicator of exposure: toluene 0.03 mg/g creatinine

Matrix: urine

Pickup time: at the end of the shift

Biological indicator of exposure: o-cresol

ETHYLBENZENE

Components with biological limit values:

IBE (Italy): 0.7 g/g creatinine

Matrix: urine

Pickup time: f.t.f.s.l.

Biological indicator of exposure: mandelic acid + phenylglyoxylic acid

-

Matrix: end-expiratory air

Pickup time: not critical

## 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

None required.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

## VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can

## SECTION 8. Exposure controls/personal protection ... / &gt;&gt;

Wear airtight protective goggles (see standard EN ISO 16321).

**RESPIRATORY PROTECTION**

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

**ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Dimethyl ether

Skin protection: Wear work clothes with long sleeves and safety footwear for professional category I use (EN 344 standard).

Hand protection: Wear category I work gloves (EN 374 standard) made of latex, PVC or equivalent. To make the final choice of material, evaluate its degradation, breaking time and permeation.

Eye protection: Wear airtight protective glasses and a face shield in case there is the possibility of contact with the face (EN 166 standard).

Respiratory protection: In case of short and modest exposure, wear a filter for organic gases and vapors (EN 371 standard). In case of intense and long-lasting exposure, wear self-contained breathing apparatus (EN 137 standard).

General hygiene and protection measures: Wash hands before breaks and at the end of work. Do not eat, drink or smoke when using. Equip work environments with an eyewash system and a safety shower.

## SECTION 9. Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

| Properties                             | Value                     | Information |
|----------------------------------------|---------------------------|-------------|
| Appearance                             | aerosol                   |             |
| Colour                                 | green                     |             |
| Odour                                  | characteristic of solvent |             |
| Melting point / freezing point         | not available             |             |
| Initial boiling point                  | not available             |             |
| Flammability                           | not available             |             |
| Lower explosive limit                  | not available             |             |
| Upper explosive limit                  | not available             |             |
| Flash point                            | ≥ 23 °C                   |             |
| Auto-ignition temperature              | not available             |             |
| Decomposition temperature              | not available             |             |
| pH                                     | not available             |             |
| Kinematic viscosity                    | not available             |             |
| Solubility                             | not available             |             |
| Partition coefficient: n-octanol/water | not available             |             |
| Vapour pressure                        | not available             |             |
| Density and/or relative density        | 0,831 kg/l                |             |
| Relative vapour density                | not available             |             |
| Particle characteristics               | not applicable            |             |

## 9.2. Other information

## 9.2.1. Information with regard to physical hazard classes

Information not available

## 9.2.2. Other safety characteristics

Information not available

## SECTION 10. Stability and reactivity

## 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

Dimethyl ether

The substance is a highly flammable gas.

FORMALDEHYDE

Decomposes under the effect of heat.

**VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can****SECTION 10. Stability and reactivity ... / >>**

Acqueous solutions are stabilised with methanol but tend to polymerise over time.

**TOLUENE**

Avoid exposure to: light.  
Avoid exposure to: light.

**FORMALDEHYDE**

Decomposes under the effect of heat.  
Acqueous solutions are stabilised with methanol but tend to polymerise over time.

**ACETONE**

Decomposes under the effect of heat.

**ETHYL ACETATE**

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

**N-BUTYL ACETATE**

Decomposes on contact with: water.

**N-BUTYL ACRYLATE**

When hot it can polymerise with explosion even when stabilised with 20 ppm of momomethyl ether hydroquinone. Store at below < 35°C/95°F and out of direct light. Always leave a layer of air on top of the liquid.

**10.2. Chemical stability**

The product is stable in normal conditions of use and storage.

**Dimethyl ether**

Stable in normal conditions of use and storage.  
The substance is stable under normal conditions of use and storage.

**10.3. Possibility of hazardous reactions**

No hazardous reactions are foreseeable in normal conditions of use and storage.

**Dimethyl ether**

The vapors of the substance can form an explosive mixture with air (formation of unstable peroxides).

**XYLENE**

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

**FORMALDEHYDE**

Risk of explosion on contact with: nitromethane, nitrogen dioxide, hydrogen peroxide, phenols, performic acid, nitric acid. May polymerise on contact with: strong oxidising agents, alkalis. May react dangerously with: hydrochloric acid, magnesium carbonate, sodium hydroxide, perchloric acid, aniline. Forms explosive mixtures with: air.

**XYLENE (MIXTURE OF ISOMERS)**

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

**TOLUENE**

Risk of explosion on contact with: fuming sulphuric acid, nitric acid, silver perchlorate, nitrogen dioxide, non-metal halogenates, acetic acid, organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids, sulphur.

**ETHYLBENZENE**

Reacts violently with: strong oxidants. Attacks various types of plastic materials. May form explosive mixtures with: air.

**FORMALDEHYDE**

Risk of explosion on contact with: nitromethane, nitrogen dioxide, hydrogen peroxide, phenols, performic acid, nitric acid. May polymerise on contact with: strong oxidising agents, alkalis. May react dangerously with: hydrochloric acid, magnesium carbonate, sodium hydroxide, perchloric acid, aniline. Forms explosive mixtures with: air.

**ACETONE**

Risk of explosion on contact with: bromine trifluoride, fluorine dioxide, hydrogen peroxide, nitrosyl chloride, 2-methyl-1,3 butadiene, nitromethane, nitrosyl perchlorate. May react dangerously with: potassium tert-butoxide, alkaline hydroxides, bromine, bromoform, isoprene, sodium, sulphur dioxide, chromium trioxide, chromyl chloride, nitric acid, chloroform, peroxy monosulphuric acid, phosphoryl oxychloride, chromosulphuric acid, fluorine, strong oxidising agents, strong reducing agents. Develops flammable gas on contact with: nitrosyl perchlorate.

**ETHYL ACETATE**

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

**N-BUTYL ACETATE**

Risk of explosion on contact with: strong oxidising agents. May react dangerously with: alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with: air.

**N-BUTYL ACRYLATE**

May polymerise on contact with: amines, bases, halogens, strong oxidising agents, acids, hydrogen compounds. May polymerise if exposed

**VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can****SECTION 10. Stability and reactivity ... / >>**

to: heat. Forms explosive mixtures with: hot air.

**10.4. Conditions to avoid**

Avoid overheating.

Dimethyl ether

Keep away from heat, sources of flame or sparks.

FORMALDEHYDE

Avoid exposure to: light, sources of heat, naked flames.

FORMALDEHYDE

Avoid exposure to: light, sources of heat, naked flames.

ACETONE

Avoid exposure to: sources of heat, naked flames.

ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

N-BUTYL ACETATE

Avoid exposure to: moisture, sources of heat, naked flames.

N-BUTYL ACRYLATE

Avoid exposure to: light, sources of heat, naked flames.

**10.5. Incompatible materials**

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

Dimethyl ether

Acids, oxidizing agents, powdered metals, oxygen and carbon monoxide.

FORMALDEHYDE

Incompatible with: acids, alkalis, ammonia, tannin, strong oxidants, phenols, copper salts, silver, iron.

FORMALDEHYDE

Incompatible with: acids, alkalis, ammonia, tannin, strong oxidants, phenols, copper salts, silver, iron.

ACETONE

Incompatible with: acids, oxidising substances.

ETHYL ACETATE

Incompatible with: acids, bases, strong oxidants, chlorosulphuric acid.

N-BUTYL ACETATE

Incompatible with: water, nitrates, strong oxidants, acids, alkalis, zinc.

N-BUTYL ACRYLATE

Incompatible with: amines, halogens, oxidising substances, strong acids, alkalis.

**10.6. Hazardous decomposition products**

Dimethyl ether

Thermal decomposition of the substance produces toxic vapors (carbon oxides, formaldehyde, methanol).

FORMALDEHYDE

When heated to decomposition releases: methanol, carbon monoxide.

ETHYLBENZENE

May develop: methane, styrene, hydrogen, ethane.

FORMALDEHYDE

When heated to decomposition releases: methanol, carbon monoxide.

ACETONE

May develop: ketenes, irritant substances.

**SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

## VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can

## SECTION 11. Toxicological information ... / &gt;&gt;

## XYLENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

## XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

## TOLUENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

## ETHYLBENZENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

## N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

## XYLENE

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

## XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

## TOLUENE

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

## ETHYLBENZENE

As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (Ispešl). Is irritating for skin, conjunctiva and respiratory tract.

## N-BUTYL ACETATE

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

Interactive effects

## XYLENE

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

## XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

## TOLUENE

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

## N-BUTYL ACETATE

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

ACUTE TOXICITY

## VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can

## SECTION 11. Toxicological information ... / &gt;&gt;

|                                                                       |                                                                                         |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| ATE (Inhalation - mists / powders) of the mixture:                    | 4,4 mg/l                                                                                |
| ATE (Oral) of the mixture:                                            | Not classified (no significant component)                                               |
| ATE (Dermal) of the mixture:                                          | >2000 mg/kg                                                                             |
| Hydrocarbons, C9-C11, nalkanes, isoalkanes, cyclics,<br><2% aromatics |                                                                                         |
| LD50 (Dermal):                                                        | > 5000 mg/kg Specie: Coniglio                                                           |
| LD50 (Oral):                                                          | > 5000 mg/kg Specie: Ratto                                                              |
| pentyl acetate                                                        |                                                                                         |
| LD50 (Dermal):                                                        | > 5000 mg/kg                                                                            |
| LD50 (Oral):                                                          | > 5000 mg/kg                                                                            |
| LC50 (Inhalation gas):                                                | > 19,25 ppm/1h                                                                          |
| XYLENE                                                                |                                                                                         |
| LD50 (Dermal):                                                        | > 1700 mg/kg Rabbit                                                                     |
| LC50 (Inhalation vapours):                                            | 5000 ppm/4h Rat                                                                         |
| ATE (Inhalation mists/powders):                                       | 1,5 mg/l<br>(figure used for calculation of the acute toxicity estimate of the mixture) |
| ISOBUTANOL                                                            |                                                                                         |
| LD50 (Dermal):                                                        | 2460 mg/kg Rabbit                                                                       |
| LD50 (Oral):                                                          | 2460 mg/kg Rat                                                                          |
| LC50 (Inhalation vapours):                                            | 19,2 mg/l/4h Rat                                                                        |
| FORMALDEHYDE                                                          |                                                                                         |
| LD50 (Dermal):                                                        | 270 mg/kg Rabbit                                                                        |
| LD50 (Oral):                                                          | 100 mg/kg Rat                                                                           |
| LC50 (Inhalation vapours):                                            | 0,588 mg/l/4h Rat                                                                       |
| XYLENE (MIXTURE OF ISOMERS)                                           |                                                                                         |
| LD50 (Dermal):                                                        | 2000 mg/kg Rabbit                                                                       |
| LD50 (Oral):                                                          | 3523 mg/kg Rat                                                                          |
| LC50 (Inhalation vapours):                                            | 27,541 mg/l/4h Rat                                                                      |
| ATE (Inhalation mists/powders):                                       | 1,5 mg/l<br>(figure used for calculation of the acute toxicity estimate of the mixture) |
| TOLUENE                                                               |                                                                                         |
| LD50 (Dermal):                                                        | 12124 mg/kg Rabbit                                                                      |
| LD50 (Oral):                                                          | 5580 mg/kg Rat                                                                          |
| LC50 (Inhalation vapours):                                            | 28,1 mg/l/4h Rat                                                                        |
| ETHYLBENZENE                                                          |                                                                                         |
| LD50 (Dermal):                                                        | 15400 mg/kg Rabbit                                                                      |
| LD50 (Oral):                                                          | 3500 mg/kg Rat                                                                          |
| LC50 (Inhalation vapours):                                            | 17,6 mg/l/1h Rat                                                                        |
| ATE (Inhalation mists/powders):                                       | 1,5 mg/l<br>(figure used for calculation of the acute toxicity estimate of the mixture) |
| FORMALDEHYDE                                                          |                                                                                         |
| LD50 (Dermal):                                                        | 270 mg/kg Rabbit                                                                        |
| LD50 (Oral):                                                          | 100 mg/kg Rat                                                                           |
| LC50 (Inhalation vapours):                                            | 0,588 mg/l/4h Rat                                                                       |
| ETHYL ACETATE                                                         |                                                                                         |
| LD50 (Dermal):                                                        | > 20000 mg/kg Specie: Coniglio                                                          |
| LD50 (Oral):                                                          | 4100 mg/kg Specie: Topo                                                                 |
| N-BUTYL ACETATE                                                       |                                                                                         |
| LD50 (Dermal):                                                        | > 10000 mg/kg Rabbit                                                                    |
| LD50 (Oral):                                                          | > 8000 mg/kg Rat                                                                        |
| LC50 (Inhalation vapours):                                            | 21,1 mg/l/4h Rat                                                                        |
| N-BUTYL ACRYLATE                                                      |                                                                                         |
| LD50 (Dermal):                                                        | 750 mg/kg Rabbit                                                                        |
| LD50 (Oral):                                                          | 900 mg/kg Rat                                                                           |
| LC50 (Inhalation vapours):                                            | 10,3 mg/l/4h Rat                                                                        |

## VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can

## SECTION 11. Toxicological information ... / &gt;&gt;

Hydrocarbons, C9-C11, nalkanes, isoalkanes, cyclics,  
<2% aromatics

Test: LC50 - Route: Inhalation - Species: Rat > 4951 mg/m3 - Duration: 4h

Dimethyl ether

LC50 Inhalation rat 164,000 ppm respiratory, anesthetic, central nervous system depressant effects, narcosis, cardiac irregularity, coma.

Skin corrosion/irritation:

Based on expert assessments, the substance is not expected to cause skin irritation (not tested on animals). Contact of the substance in liquid phase with the skin can cause serious cold injuries.

Serious eye damage/eye irritation:

Based on expert assessments, the substance is not expected to cause eye irritation (not tested on animals). Contact of the substance in liquid phase with the eyes can cause serious cold injuries.

Respiratory or skin sensitization:

Based on expert assessments, the substance is not expected to have sensitizing effects (not tested on animals).

Repeated dose toxicity:

Inhalation studies conducted on rats have not shown significant toxicological effects.

Germ cell mutagenicity:

Tests conducted on cultures of bacterial or mammalian cells have not shown mutagenic effects.

Carcinogenicity

Animal testing has not shown any carcinogenic effects.

Reproductive toxicity: No reprotoxic effects.

XYLENE (MIXTURE OF ISOMERS)

ATE (Vapour inhalation): 11 mg/l estimated from table 3.1.2 of Annex I of CLP (data used to calculate the estimate of the acute toxicity of the mixture)

ETHYL ACETATE

OBSERVATIONS ON MAN:

400 ppm: irritating to eyes.

Severe toxic effects at 2000 ppm/60 min, symptoms of malaise at 800 ppm.

Inhalation toxicity: TCLo 400 ppm irritation to nose, eyes and respiratory system

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

4-Morpholincarbalddehyde

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

XYLENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC).

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC).

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

TOLUENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

ETHYLBENZENE

**VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can****SECTION 11. Toxicological information ... / >>**

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000).  
Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014).

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation  
May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

May cause damage to organs

ASPIRATION HAZARD

Toxic for aspiration

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

**SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

**12.1. Toxicity**

Dimethyl ether  
LC50 (48 h) daphnia magna 755.549 mg/l

ETHYL ACETATE  
Endpoint: LC50 - Species: Algae = 5600 mg/l - Duration h: 48  
Endpoint: EC50 - Species: Daphnia = 3090 mg/l - Duration h: 24

Hydrocarbons, C9-C11, nalkanes, isoalkanes, cyclics,  
<2% aromatics  
LC50 - for Fish > 1000 mg/l/96h Specie: Pesci  
EC50 - for Crustacea 1000 mg/l/48h Specie: Dafnie  
EC50 - for Algae / Aquatic Plants > 1000 mg/l/72h - Specie: Alghe

Dimethyl ether  
LC50 - for Fish > 4000 mg/l/96h trota iridea  
EC50 - for Crustacea > 4000 mg/l/48h daphnia magna

pentyl acetate  
EC50 - for Algae / Aquatic Plants > 466 mg/l/72h

ETHYLBENZENE  
LC50 - for Fish 4,2 mg/l/96h oncorhynchus mykiss  
EC50 - for Crustacea 1,8 mg/l/48h  
Chronic NOEC for Crustacea 1 mg/l  
Chronic NOEC for Algae / Aquatic Plants 3,4 mg/l 72h

ETHYL ACETATE  
LC50 - for Fish 230 mg/l/96h  
EC50 - for Crustacea 260 mg/l/48h Specie: Dafnie  
EC50 - for Algae / Aquatic Plants > 100 mg/l/72h Specie: Alghe

N-BUTYL ACETATE  
LC50 - for Fish 100 mg/l/96h Lepomis macrochirus  
EC50 - for Algae / Aquatic Plants 674,7 mg/l/72h Desmodesmus subspicatus

## VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can

## SECTION 12. Ecological information ... / &gt;&gt;

## 12.2. Persistence and degradability

## XYLENE

Solubility in water

100 - 1000 mg/l

Rapidly degradable

## ISOBUTANOL

Solubility in water

1000 - 10000 mg/l

Rapidly degradable

## FORMALDEHYDE

Solubility in water

55000 mg/l

Rapidly degradable

## XYLENE (MIXTURE OF ISOMERS)

Solubility in water

100 - 1000 mg/l

Rapidly degradable

## TOLUENE

Solubility in water

100 - 1000 mg/l

Rapidly degradable

## ETHYLBENZENE

Solubility in water

1000 - 10000 mg/l

Rapidly degradable

## FORMALDEHYDE

Solubility in water

55000 mg/l

Rapidly degradable

## ACETONE

Rapidly degradable

## ETHYL ACETATE

Solubility in water

&gt; 10000 mg/l

Rapidly degradable

## N-BUTYL ACETATE

Solubility in water

1000 - 10000 mg/l

## N-BUTYL ACRYLATE

Solubility in water

1700 mg/l

Rapidly degradable

## 12.3. Bioaccumulative potential

## XYLENE

Partition coefficient: n-octanol/water

3,12

BCF

25,9

## ISOBUTANOL

Partition coefficient: n-octanol/water

1

## FORMALDEHYDE

Partition coefficient: n-octanol/water

0,35

BCF

&lt; 1

## XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water

3,12

BCF

25,9

## TOLUENE

Partition coefficient: n-octanol/water

2,73

BCF

90

**VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can****SECTION 12. Ecological information ... / >>**

|                                        |       |
|----------------------------------------|-------|
| ETHYLBENZENE                           |       |
| Partition coefficient: n-octanol/water | 3,6   |
| FORMALDEHYDE                           |       |
| Partition coefficient: n-octanol/water | 0,35  |
| BCF                                    | < 1   |
| ACETONE                                |       |
| Partition coefficient: n-octanol/water | -0,23 |
| BCF                                    | 3     |
| ETHYL ACETATE                          |       |
| Partition coefficient: n-octanol/water | 0,68  |
| BCF                                    | 30    |
| N-BUTYL ACETATE                        |       |
| Partition coefficient: n-octanol/water | 2,3   |
| BCF                                    | 15,3  |
| N-BUTYL ACRYLATE                       |       |
| Partition coefficient: n-octanol/water | 2,38  |
| BCF                                    | 37    |

**12.4. Mobility in soil**

Information not available

**12.5. Results of PBT and vPvB assessment**

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

**12.6. Endocrine disrupting properties**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

**12.7. Other adverse effects**

Information not available

**SECTION 13. Disposal considerations****13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14. Transport information****14.1. UN number or ID number**

ADR / RID, IMDG, IATA: UN 1950

**14.2. UN proper shipping name**

ADR / RID: AEROSOLS MIXTURE  
IMDG: AEROSOLS MIXTURE  
IATA: AEROSOLS, FLAMMABLE MIXTURE

## VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can

## SECTION 14. Transport information ... / &gt;&gt;

## 14.3. Transport hazard class(es)

ADR / RID: Class: 2 Label: 2.1



IMDG: Class: 2 Label: 2.1



IATA: Class: 2 Label: 2.1



## 14.4. Packing group

ADR / RID, IMDG, IATA: -

## 14.5. Environmental hazards

ADR / RID: NO  
IMDG: not marine pollutant  
IATA: NO

## 14.6. Special precautions for user

|            |                                       |                          |                              |
|------------|---------------------------------------|--------------------------|------------------------------|
| ADR / RID: | HIN - Kemler: --                      | Limited Quantities: 1 L  | Tunnel restriction code: (D) |
|            | Special provision: 190, 327, 344, 625 |                          |                              |
| IMDG:      | EMS: F-D, S-U                         | Limited Quantities: 1 L  |                              |
| IATA:      | Cargo:                                | Maximum quantity: 150 Kg | Packaging instructions: 203  |
|            | Passengers:                           | Maximum quantity: 75 Kg  | Packaging instructions: 203  |
|            | Special provision:                    | A145, A167, A802         |                              |

## 14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

## SECTION 15. Regulatory information

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EU: P3a

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 40

Contained substance

Point 75

Point 72-77

FORMALDEHYDE

Point 72-77

FORMALDEHYDE

REACH Reg.: 01-2119488953-20

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Regulated explosives precursor

The acquisition, introduction, possession or use of that regulated explosives precursor by members of the general public is subject to reporting obligations as set out in Article 9.

All suspicious transactions and significant disappearances and thefts must be reported to the relevant national contact point.

Substances in Candidate List (Art. 59 REACH)On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

## VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can

## SECTION 15. Regulatory information ... / &gt;&gt;

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

VOC (Directive 2004/42/EC) :

Special finishes - All types.

## 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

## SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

|                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| <b>Flam. Gas 1A</b>      | Flammable gas, category 1A                                         |
| <b>Aerosol 1</b>         | Aerosol, category 1                                                |
| <b>Aerosol 3</b>         | Aerosol, category 3                                                |
| <b>Flam. Liq. 2</b>      | Flammable liquid, category 2                                       |
| <b>Flam. Liq. 3</b>      | Flammable liquid, category 3                                       |
| <b>Press. Gas</b>        | Pressurised gas                                                    |
| <b>Carc. 1B</b>          | Carcinogenicity, category 1B                                       |
| <b>Muta. 2</b>           | Germ cell mutagenicity, category 2                                 |
| <b>Repr. 2</b>           | Reproductive toxicity, category 2                                  |
| <b>Acute Tox. 2</b>      | Acute toxicity, category 2                                         |
| <b>Acute Tox. 3</b>      | Acute toxicity, category 3                                         |
| <b>Acute Tox. 4</b>      | Acute toxicity, category 4                                         |
| <b>Asp. Tox. 1</b>       | Aspiration hazard, category 1                                      |
| <b>STOT RE 2</b>         | Specific target organ toxicity - repeated exposure, category 2     |
| <b>Skin Corr. 1B</b>     | Skin corrosion, category 1B                                        |
| <b>Skin Corr. 1C</b>     | Skin corrosion, category 1C                                        |
| <b>Skin Corr. 1</b>      | Skin corrosion, category 1                                         |
| <b>Eye Dam. 1</b>        | Serious eye damage, category 1                                     |
| <b>Eye Irrit. 2</b>      | Eye irritation, category 2                                         |
| <b>Skin Irrit. 2</b>     | Skin irritation, category 2                                        |
| <b>STOT SE 3</b>         | Specific target organ toxicity - single exposure, category 3       |
| <b>Skin Sens. 1</b>      | Skin sensitization, category 1                                     |
| <b>Skin Sens. 1B</b>     | Skin sensitization, category 1B                                    |
| <b>Aquatic Chronic 3</b> | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| <b>H220</b>              | Extremely flammable gas.                                           |
| <b>H222</b>              | Extremely flammable aerosol.                                       |
| <b>H229</b>              | Pressurised container: may burst if heated.                        |
| <b>H225</b>              | Highly flammable liquid and vapour.                                |
| <b>H226</b>              | Flammable liquid and vapour.                                       |
| <b>H280</b>              | Contains gas under pressure; may explode if heated.                |
| <b>H350</b>              | May cause cancer.                                                  |
| <b>H341</b>              | Suspected of causing genetic defects.                              |
| <b>H361d</b>             | Suspected of damaging the unborn child.                            |
| <b>H330</b>              | Fatal if inhaled.                                                  |
| <b>H301</b>              | Toxic if swallowed.                                                |
| <b>H311</b>              | Toxic in contact with skin.                                        |
| <b>H331</b>              | Toxic if inhaled.                                                  |
| <b>H312</b>              | Harmful in contact with skin.                                      |
| <b>H332</b>              | Harmful if inhaled.                                                |
| <b>H304</b>              | May be fatal if swallowed and enters airways.                      |
| <b>H373</b>              | May cause damage to organs through prolonged or repeated exposure. |
| <b>H314</b>              | Causes severe skin burns and eye damage.                           |
| <b>H318</b>              | Causes serious eye damage.                                         |
| <b>H319</b>              | Causes serious eye irritation.                                     |
| <b>H315</b>              | Causes skin irritation.                                            |
| <b>H335</b>              | May cause respiratory irritation.                                  |
| <b>H317</b>              | May cause an allergic skin reaction.                               |
| <b>H336</b>              | May cause drowsiness or dizziness.                                 |
| <b>H412</b>              | Harmful to aquatic life with long lasting effects.                 |
| <b>EUH066</b>            | Repeated exposure may cause skin dryness or cracking.              |

## VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can

### SECTION 16. Other information ... / >>

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
  4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
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  16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
  17. Regulation (EU) 2019/1148
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- The Merck Index. - 10th Edition
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  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

## VCD-AC-KQH - VCD-AC-KQH Two-coat car paint in spray can

### SECTION 16. Other information ... / >>

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

#### Changes to previous review:

The following sections were modified:

01 / 03 / 04 / 14 / 16.