

according to Regulation (EC) No 1907/2006 (REACH) as amended

AIR CON CLEANER

Creation date 16. July 2015 Revision date 09. March 2018

09. March 2018 Version 1.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier AIR CON CLEANER

Substance / mixture mixture mixture Number R 34147

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

mixture's intended use Cleaning agent.

Disapproved uses of mixture For professional use only.

1.3. Details of the supplier of the safety data sheet

Supplier

Name or trade name RETECH, s.r.o.

Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00

Czech Republic

Identification number (ID) 25018205

Phone +420327596428
E-mail info@retech.cz
Web address www.retech.com

Competent person responsible for the safety data sheet

Name RETECH, s.r.o. E-mail info@retech.cz

1.4. Emergency telephone number

RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic; Telephone number: +420 327 596 128 (7.30-16.00 hour)

Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals.

SECTION 2: Hazards identification

2.1. Substance or mixture classification

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Aerosol 1, H222, H229 Eye Irrit. 2, H319

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse physico-chemical effects

Extremely flammable aerosol. Pressurised container: May burst if heated.

Most serious adverse effects on human health and the environment

Causes serious eye irritation.

2.2. Label elements

Hazard pictogram





Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H319 Causes serious eye irritation.



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Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear eye protection/face protection.

P337+P313 If eye irritation persists: Get medical advice/attention.

P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F. P501 Dispose of contents/container to in accordance with national regulations.

Supplemental information

5-<15 % aliphatic hydrocarbons, <5 % phosphates, <5 % non-ionic surfactants, <5 % EDTA and salts thereof, <5 % Parfum, limonene

2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note. |
|--|--|---------------------|---|-------|
| CAS: 68476-85-7 EC: 270-704-2 | Petroleum gases, liquefied | 10-30 | Flam. Gas 1, H220 Press. Gas (liquefied gas), H280 | |
| CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25 | propan-2-ol | 5-10 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 | |
| CAS: 111-76-2 EC: 203-905-0 Registration number: 01-2119475108-36 | 2-butoxyethanol | 1-5 | Acute Tox. 4, H302, H312, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 | 1 |
| CAS: 68131-39-5 EC: 500-195-7 | alcohols, C12-15, ethoxylated (1<2.5 mol EO) | <1 | Eye Dam. 1, H318 Aquatic Acute 1, H400, M=1 | |

Notes

1 Substance for which exposure limits of Community for working environment exist.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

Inhalation

Transfer the affected person to the fresh air and ensure calm environment for body and mind. Remove person to fresh air and keep comfortable for breathing.

Skin contact

Immediately wash with water and soap and rinse thoroughly.



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Eve contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. In the event of issues, find medical advice.

Ingestion

Rinse out the mouth with clean water. DO NOT INDUCE VOMITING! In the event of issues, find medical advice.

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

Inhalation

May cause drowsiness or dizziness.

Skin contact

Redness, irritation.

Eve contact

Causes serious eye irritation.

Ingestion

Irritation, nausea.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, powder, water spray jet.

Unsuitable extinguishing media

not available

5.2. Special hazards arising from the substance or mixture

Extremely flammable aerosol. Pressurised container: May burst if heated.

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Remove all ignition sources; provide sufficient ventilation. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Do not inhale gases and vapours. Prevent contact with skin and eyes.

6.2. Environmental precautions

Do not allow to enter drains. Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Provide sufficient ventilation. Leave small quantities to evaporate, if safe to do so. After removal of the product, wash the contaminated site with plenty of water.

6.4. Reference to other sections

See the Section 7, 8 and 13.



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use personal protective equipment as per Section 8. Ensure good ventilation/exhaustion at the workplace. Do not inhale gases and vapours. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Do not spray on an open flame or other ignition source. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. No smoking. Take precautionary measures against static discharge. Pressurised container: May burst if heated. Keep away from sources of heating, ignition and direct sunlight. Do not pierce or burn, even after use.

7.2. Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep cool. Observe official regulations on storing packagings with pressurized containers.

Storage class 2B - Aerosols

Storage temperature min 4 °C, max 40 °C

The specific requirements or rules relating to the substance/mixture

Keep away from sources of heating, ignition and direct sunlight. No smoking.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

| Substance name (component) | Туре | Time of exposure | Value | Note | Source |
|---------------------------------|------|------------------|-----------------------|------|-------------|
| | OEL | 8 hours | 98 mg/m³ | | |
| 2-butoxyethanol (CAS: 111-76-2) | OEL | 8 hours | 20 ppm | | Ell limaite |
| | OEL | Short-term | 246 mg/m ³ | | EU limits |
| | OEL | Short-term | 50 ppm | | |

United Kingdom of Great Britain and Northern Ireland

| Substance name (component) | Туре | Time of exposure | Value | Note | Source | |
|----------------------------|------|------------------|------------------------|------|--------|--|
| | WEL | 8 hours | 1750 mg/m ³ | | | |
| Petroleum gases, liquefied | WEL | 15 minutes | 2180 mg/m ³ | | CDD | |
| (CAS: 68476-85-7) | WEL | 8 hours | 1000 ppm | | GBR | |
| | WEL | 15 minutes | 1250 ppm | | | |
| propan-2-ol (CAS: 67-63-0) | WEL | 8 hours | 999 mg/m ³ | | | |
| | WEL | 15 minutes | 1250 mg/m ³ | | | |
| | WEL | 8 hours | 400 ppm | | GBR | |
| | WEL | 15 minutes | 500 ppm | | 1 | |



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United Kingdom of Great Britain and Northern Ireland

| Substance name (component) | Туре | Time of exposure | Value | Note | Source |
|---------------------------------|----------------|------------------|-----------------------|--|--------|
| 2-butoxyethanol (CAS: 111-76-2) | WEL | 8 hours | 123 mg/m ³ | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | |
| | WEL | 15 minutes | 246 mg/m ³ | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | GBR |
| | WEL | 8 hours | 25 ppm | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | GBK |
| | WEL 15 minutes | | 50 ppm | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | |



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DNEL

2-butoxyethanol

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|------------------------|--------------------------|--------------------|
| Workers | Inhalation | 98 mg/m ³ | Systemic chronic effects | |
| Workers | Inhalation | 1091 mg/m ³ | Systemic acute effects | |
| Workers | Inhalation | 246 mg/m ³ | Local acute effects | |
| Workers | Dermal | 125 mg/kg bw/day | Systemic chronic effects | |
| Workers | Dermal | 89 mg/kg bw/day | Local acute effects | |
| Consumers | Inhalation | 59 mg/m ³ | Systemic chronic effects | |
| Consumers | Inhalation | 426 mg/m ³ | Systemic acute effects | |
| Consumers | Inhalation | 147 mg/m ³ | Local acute effects | |
| Consumers | Dermal | 75 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Dermal | 89 mg/kg bw/day | Systemic acute effects | |
| Consumers | Oral | 6.3 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Oral | 26.7 mg/kg bw/day | Systemic acute effects | |

propan-2-ol

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|----------------------|--------------------------|--------------------|
| Consumers | Oral | 26 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Dermal | 319 mg/kg bw/day | Systemic chronic effects | |
| Workers | Dermal | 888 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 89 mg/m ³ | Local chronic effects | |
| Workers | Inhalation | 500 mg/kg | Systemic chronic effects | |

PNEC

2-butoxyethanol

| Route of exposure | Value | Determining method |
|---|---|--------------------|
| Freshwater environment | 8.8 mg/l | |
| Water (occasional leak) | 9.1 mg/l | |
| Seawater | 0.88 mg/l | |
| Microorganisms in wastewater treatment plants | 463 mg/l | |
| Freshwater sediment | 34.6 mg/kg of dry substance of sediment | |
| Sea sediments | 3.46 mg/kg of dry substance of sediment | |
| Soil (agricultural) | 2.33 mg/kg of dry substance of soil | |
| Food chain | 0.00002 mg/kg of food | |



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propan-2-ol

| Route of exposure | Value | Determining method |
|---|--|--------------------|
| Freshwater environment | 140.9 mg/l | |
| Water (occasional leak) | 140.9 mg/l | |
| Seawater | 140.9 mg/l | |
| Microorganisms in wastewater treatment plants | 2251 mg/l | |
| Freshwater sediment | 552 mg/kg of dry substance of sediment | |
| Sea sediments | 552 mg/kg of dry substance of sediment | |
| Soil (agricultural) | 28 mg/kg of dry substance of soil | |
| Food chain | 160 mg/kg of food | |

8.2. **Exposure controls**

Provide sufficient ventilation. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Do not inhale aerosols. Do not inhale gases and vapours. Prevent contact with skin and eyes.

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Tightly sealed goggles.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Material of gloves: Rubber (natural, latex). PVC. Other protection: protective workwear.

aerosol

Respiratory protection

Under regular circumstances it is not necessary.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance Physical state no data available at 20°C

color white Odour citrus

Odour threshold data not available data not available Melting point/freezing point data not available Initial boiling point and boiling range data not available Flash point data not available Evaporation rate non-applicable

Flammability (solid, gas) Extremely flammable aerosol.

Upper/lower flammability or explosive limits

data not available flammability limits explosive limits data not available Vapour pressure data not available data not available Vapour density Relative density data not available

Solubility(ies)

solubility in water soluble



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solubility in fats data not available
Partition coefficient: n-octanol/water data not available
Auto-ignition temperature data not available
Decomposition temperature data not available
Viscosity viskózní

Explosive properties data not available Oxidising properties data not available

data not available

9.2. Other information

Density data not available ignition temperature data not available

SECTION 10: Stability and reactivity

10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

not available

10.4. Conditions to avoid

Keep away from sources of heating, ignition and direct sunlight.

10.5. Incompatible materials

Unknown.

10.6. Hazardous decomposition products

Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

2-butoxyethanol

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|-------------------|-----------|------------|------------------|---------|-----|
| Oral | LD50 | 1746 mg/kg | | Rat | |
| Oral | ATE | 1746 mg/kg | | | |
| Dermal | LD50 | 1060 mg/kg | | Rat | |
| Dermal | ATE | 1060 mg/kg | | | |
| Inhalation | ATE | 11 mg/l | | | |

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| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|--------------------|-----------|---------------|------------------|---------|-----|
| Oral | ATE | 38800 mg/kg | | | |
| Dermal | ATE | 23555.6 mg/kg | | | |
| Inhalation (vapor) | ATE | 244.4 mg/l | | | |

alcohols, C12-15, ethoxylated (1<2.5 mol EO)

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|-------------------|------------------|------------|------------------|---------|-----|
| Dermal | LD ₅₀ | 2001 mg/kg | | Rat | |



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alcohols, C12-15, ethoxylated (1<2.5 mol EO)

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|-------------------|-----------|------------|------------------|---------|-----|
| Dermal | ATE | 2001 mg/kg | | | |

propan-2-ol

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|-------------------|------------------|------------|------------------|---------|-----|
| Oral | LD ₅₀ | 4700 mg/kg | | Rat | |
| Dermal | LD ₅₀ | 16.4 mg/kg | | Rabbit | |
| Oral | ATE | 4700 mg/kg | | | |

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Data for the mixture are not available.

2-butoxyethanol

| Parameter | Value | Time of exposure | Species | Environment |
|-----------|---------------|------------------|-------------------------------|-------------|
| LC50 | 820-1490 mg/l | 96 hour | Fishes | |
| EC50 | 835-1550 mg/l | 48 hour | Invertebrates (Daphnia magna) | |
| IC50 | 1840 mg/l | 72 hour | Algae | |



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propan-2-ol

| Parameter | Value | Time of exposure | Species | Environment |
|-----------|-----------|------------------|---------------------------------|-------------|
| LC50 | 9640 mg/l | 96 hour | Fishes (Pimephales promelas) | |
| EC50 | 9714 mg/l | | Invertebrates (Daphnia magna) | |
| EC50 | >100 mg/l | 48 hour | Invertebrates (Daphnia magna) | |
| EC50 | >100 mg/l | 72 hour | Algae (Scenedesmus subspicatus) | |
| IC50 | >100 mg/l | 72 hour | Algae | |

12.2. Persistence and degradability

Biodegradability

2-butoxyethanol

| Parameter | Value | Time of exposure | Environment | Result |
|-----------|-------|------------------|-------------|---------------|
| | | | | Biodegradable |

propan-2-ol

| Parameter | Value | Time of exposure | Environment | Result |
|-----------|-------|------------------|-------------|---------------|
| | | | | Biodegradable |

The mixture is biodegradable.

12.3. Bioaccumulative potential

2-butoxyethanol

| Parameter | Value | Time of exposure | Species | Environment | Surrounding temperature [°C] | Source |
|-----------|-------|------------------|---------|-------------|------------------------------|---|
| | | | | | . 33 | No bioaccum ulation potential. |

propan-2-ol

| Parameter | Value | Time of exposure | Species | Surrounding temperature [°C] | Source |
|-----------|-------|------------------|---------|------------------------------|---|
| | | | | | No bioaccum ulation potential. |

No bioaccumulation potential.

12.4. Mobility in soil



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propan-2-ol

| Parameter | Value | Environment | Surrounding temperature | Source |
|-----------|-------|-------------|-------------------------|------------------------------------|
| | | | | The substance is soluble in water. |

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste.

Legislation of waste

Council Directive 75/442/EEC on waste, as amended. Decree No. 383/2001 Coll., on details regarding waste handling as amended. Decree No. 93/2016 Coll., (waste catalogue) as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

16 03 05 organic wastes containing dangerous substances

Packaging waste type code

metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

SECTION 14: Transport information

14.1. UN number

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

2 Gases

14.4. Packing group

not available

14.5. Environmental hazards

not available

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not available



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(Kemler Code)

Additional information

Hazard identification No.

UN number

Classification code 5F Safety signs 2.:



Road transport ADR

Extracted amounts E0
Tunnel restriction code (D)

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. The Act No. 258/2000 Coll., on Protection of Public Health as amended. Decree No. 361/2007 Coll., determining conditions of occupational health protection as amended. Decree No. 415/2012 Coll., on the permissible level of pollution and its determination and implementation of certain other provisions of the Air Protection Act as amended. The Act No. 185/2001 Coll., on Waste and the Amendment of Some Other Acts as amended. The Act No. 201/2012 Coll., on the Protection of Atmosphere - Clean Air Act as amended. Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as ammended.

15.2. Chemical safety assessment

not available

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

| H220 | Extremely flammable gas. |
|------|---|
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapour. |
| H229 | Pressurised container: May burst if heated. |
| H280 | Contains gas under pressure; may explode if heated. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| | |

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.



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Guidelines for safe handling used in the safety data sheet

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear eye protection/face protection.

P337+P313 If eye irritation persists: Get medical advice/attention.

P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F. P501 Dispose of contents/container to in accordance with national regulations.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods by

road

BCF Bioconcentration Factor
CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substance and mixtures

DNEL Derived no-effect level

EC Identification code for each substance listed in EINECS

EC50 Concentration of a substance when it is affected 50% of the population EINECS European Inventory of Existing Commercial Chemical Substances

EmS Emergency plan EU European Union

IATA International Air Transport Association

IBC International Code For The Construction And Equipment of Ships Carrying Dangerous

Chemicals

ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods

INCI International Nomenclature of Cosmetic Ingredients
ISO International Organization for Standardization
IUPAC International Union of Pure and Applied Chemistry

LC50 Lethal concentration of a substance in which it can be expected death of 50% of the

population

LD50 Lethal dose of a substance in which it can be expected death of 50% of the

population

LOAEC Lowest observed adverse effect concentration

LOAEL Lowest observed adverse effect level log Kow Octanol-water partition coefficient

MARPOL International Convention for the Prevention of Pollution From Ships

NOAEC No observed adverse effect concentration

NOAEL No observed adverse effect level NOEC No observed effect concentration

NOEL No observed effect level OEL Occupational Exposure Limits

PBT Persistent, Bioaccumulative and Toxic PNEC Predicted no-effect concentration

ppm Parts per million



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REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Agreement on the transport of dangerous goods by rail

UN Four-figure identification number of the substance or article taken from the UN

Model Regulations

UVCB Substances of unknown or variable composition, complex reaction products or

biological materials

VOC Volatile organic compounds

vPvB Very Persistent and very Bioaccumulative

Acute Tox. Acute toxicity
Aerosol Flammable aerosol

Aquatic Acute Hazardous to the aquatic environment

Eye Dam. Serious eye damage

Eye Irrit. Eye irritation
Flam. Gas Flammable gas
Flam. Liq. Flammable liquid
Press. Gas Gases under pressure

Skin Irrit. Skin irritation

STOT SE Specific target organ toxicity - single exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.