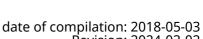
acc. to Regulation (EC) No. 1907/2006 (REACH)

Cyclohexane ROTISOLV® Pestilyse® ≥99,5 %

article number: T163 Version: 5.0 en Revision: 2024-03-02

Replaces version of: 2022-12-15

Version: (4)



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

Product identifier 1.1

Identification of the substance **Cyclohexane** ROTISOLV® Pestilyse® ≥99,5 %

Article number T163

Index No (GB CLP) 601-017-00-1 EC number 203-806-2 CAS number 110-82-7

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for products which come into contact

> with foodstuffs. Do not use for private purposes (household). Food, drink and animal feeding-

stuffs.

Details of the supplier of the safety data sheet 1.3

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 Telefax: +49 (0) 721 - 56 06 149 e-mail: sicherheit@carlroth.de Website: www.carlroth.de

sheet:

e-mail (competent person): sicherheit@carlroth.de

Emergency telephone number 1.4

| | Name | Street | Postal code/city | Telephone | Website |
|---------|--|-----------|----------------------|--------------|---------|
| Nationa | al Poisons Information Service City Hospital | Dudley Rd | B187QH Birmingham | 844 892 0111 | |

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1

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acc. to Regulation (EC) No. 1907/2006 (REACH)

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Classification acc. to GHS

| Section | Hazard class | Cat- egory | Hazard class and category | Hazard statement |
|---------|---|---------------|---------------------------|---------------------|
| 2.6 | Flammable liquid | 2 | Flam. Liq. 2 | H225 |
| 3.2 | Skin corrosion/irritation | 2 | Skin Irrit. 2 | H315 |
| 3.8D | Specific target organ toxicity - single exposure (narcotic effects, drowsiness) | 3 | STOT SE 3 | H336 |
| 3.10 | Aspiration hazard | 1 | Asp. Tox. 1 | H304 |
| 4.1A | Hazardous to the aquatic environment - acute hazard | | Aquatic Acute 1 | H400 |
| 4.1C | Hazardous to the aquatic environment - chronic hazard | 1 | Aquatic Chronic 1 | H410 |

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling

Signal word Danger

Pictograms

GHS02, GHS07, GHS08, GHS09









Hazard statements

| HOOF | History flavous ship liquid and conseque |
|------|--|
| H225 | Highly flammable liquid and vapour |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation |
| H336 | May cause drowsiness or dizziness |
| H410 | Very toxic to aquatic life with long lasting effects |

Precautionary statements

Precautionary statements - prevention

P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking P273 Avoid release to the environment

Precautionary statements - response

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting P302+P352 IF ON SKIN: Wash with plenty of soap and water

Precautionary statements - storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed

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acc. to Regulation (EC) No. 1907/2006 (REACH)

Cyclohexane ROTISOLV® Pestilyse® ≥99,5 %

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Endocrine disrupting properties

SECTION 3: Composition/information on ingredients

Substances

Name of substance Cyclohexane

Molecular formula C₆H₁₂

84,16 ^g/_{mol} Molar mass CAS No 110-82-7 EC No 203-806-2 Index No (GB CLP) 601-017-00-1

SECTION 4: First aid measures

4.1 **Description of first aid measures**



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

Rinse skin with water/shower. In case of skin irritation, consult a physician.

Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

Following ingestion

Call a physician immediately. Observe aspiration hazard if vomiting occurs.

4.2 Most important symptoms and effects, both acute and delayed

Irritation, Nausea, Gastrointestinal complaints, Vomiting, Aspiration hazard, Vertigo, Drowsiness, Dizziness, Narcosis

4.3 Indication of any immediate medical attention and special treatment needed

none

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2.3 Other hazards

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

acc. to Regulation (EC) No. 1907/2006 (REACH)

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article number: T163



SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air

Hazardous combustion products

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Avoidance of ignition sources.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

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acc. to Regulation (EC) No. 1907/2006 (REACH)

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6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provision of sufficient ventilation.

Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge. Due to danger of explosion, prevent leakage

of vapours into cellars, flues and ditches.

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Ground/bond container and receiving equipment.

Ventilation requirements

Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No information available.

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acc. to Regulation (EC) No. 1907/2006 (REACH)

Cyclohexane ROTISOLV® Pestilyse® ≥99,5 %

article number: T163



SECTION 8: Exposure controls/personal protection

Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

| Cou ntr y | Name of agent | CAS No | Identi- fier | TW A [pp m] | TWA [mg/ m³] | STE L [pp m] | STEL [mg/ m³] | Ceil ing- C [pp m] | Ceil- ing-C [mg/ m³] | Nota- tion | Source |
|-----------------|---------------|----------|-----------------|----------------------|--------------------|-----------------------|---------------------|--------------------------------|-------------------------------|---------------|----------------|
| EU | cyclohexane | 110-82-7 | IOELV | 200 | 700 | | | | | | 2006/15/ EC |
| GB | cyclohexane | 110-82-7 | WEL | 100 | 350 | 300 | 1.050 | | | | EH40/ 2005 |

Notation

Ceiling-C

Ceiling value is a limit value above which exposure should not occur Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) STEL

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8

hours time-weighted average (unless otherwise specified)

Human health values

Relevant DNELs and other threshold levels

| Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|----------|-----------------------|------------------------------------|-------------------|----------------------------|
| DNEL | 700 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DNEL | 1.400 mg/m³ | human, inhalatory | worker (industry) | acute - systemic effects |
| DNEL | 700 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| DNEL | 1.400 mg/m³ | human, inhalatory | worker (industry) | acute - local effects |
| DNEL | 2.016 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

Environmental values

Relevant PNECs and other threshold levels

| End- point | Threshold level | Organism | Environmental com- partment | Exposure time |
|---------------|-------------------------------------|-----------------------|---------------------------------|------------------------------|
| PNEC | 0,207 ^{mg} / _l | aquatic organisms | freshwater | short-term (single instance) |
| PNEC | 0,207 ^{mg} / _l | aquatic organisms | marine water | short-term (single instance) |
| PNEC | 3,24 ^{mg} / _l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| PNEC | 16,68 ^{mg} / _{kg} | aquatic organisms | freshwater sediment | short-term (single instance) |
| PNEC | 16,68 ^{mg} / _{kg} | aquatic organisms | marine sediment | short-term (single instance) |
| PNEC | 3,38 ^{mg} / _{kg} | terrestrial organisms | soil | short-term (single instance) |

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acc. to Regulation (EC) No. 1907/2006 (REACH)

Cyclohexane ROTISOLV® Pestilyse® ≥99,5 %

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Use safety goggle with side protection.

Skin protection





hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

type of material

NBR (Nitrile rubber)

material thickness

0.4 mm

breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Flame-retardant protective clothing.

Respiratory protection





Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

Environmental exposure controls

Keep away from drains, surface and ground water.

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8.2 **Exposure controls**

Individual protection measures (personal protective equipment)

Eye/face protection





acc. to Regulation (EC) No. 1907/2006 (REACH)

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state liquid

Colour colourless Odour mild sweet Melting point/freezing point 6-7 °C

Boiling point or initial boiling point and boiling

range

Flammability

flammable liquid in accordance with GHS criteria

Lower and upper explosion limit 1,3 vol% (LEL) - 8,4 vol% (UEL) Flash point -20 °C at 1.014 hPa (ECHA)

80 - 81 °C

Auto-ignition temperature 260 °C (ECHA)

Decomposition temperature not relevant

pH (value) not determined

Kinematic viscosity 1,26 mm²/s at 20 °C

Dynamic viscosity 0,98 mPa s at 20 °C

Solubility(ies)

Water solubility <0,1 ^g/_l at 20 °C

Partition coefficient

Partition coefficient n-octanol/water (log value): 3,44 (pH value: 7, 25 °C) (ECHA)

Soil organic carbon/water (log KOC) 2,89 (ECHA)

Vapour pressure 124 hPa at 24 °C

Density and/or relative density

Density $0.78 \, \mathrm{^{9}/_{cm^3}} \, \mathrm{at} \, 20 \, \mathrm{^{\circ}C}$

Relative vapour density 2,91 (air = 1)

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

classes

Other safety characteristics: There is no additional information.

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acc. to Regulation (EC) No. 1907/2006 (REACH)

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SECTION 10: Stability and reactivity

10.1 Reactivity

It's a reactive substance. Risk of ignition. Vapours may form explosive mixtures with air.

If heated

Risk of ignition.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser, Nitrogen oxides (NOx)

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

Rubber articles, different plastics

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4. May be harmful in contact with skin or if inhaled.

| | | city |
|--|--|------|
| | | |
| | | |

| Exposure route | Endpoint | Value | Species | Method | Source |
|--------------------|----------|---|---------|--------|--------|
| oral | LD50 | >5.000 ^{mg} / _{kg} | rat | | ECHA |
| inhalation: vapour | LC50 | >32.880 ^{mg} / _{m³} /4h | rat | | ECHA |
| dermal | LD50 | >2.000 ^{mg} / _{kg} | rabbit | | ECHA |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

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acc. to Regulation (EC) No. 1907/2006 (REACH)

Cyclohexane ROTISOLV® Pestilyse® ≥99,5 %

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Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

May be fatal if swallowed and enters airways.

If inhaled

none

11.2 Endocrine disrupting properties

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)

| Endpoint | Value | Species | Source | Exposure time |
|----------|------------------------------------|-----------------------|--------|------------------|
| LC50 | 4,53 ^{mg} / _l | fish | ECHA | 96 h |
| EC50 | 0,9 ^{mg} / _l | aquatic invertebrates | ECHA | 48 h |
| ErC50 | 9,317 ^{mg} / _l | algae | ECHA | 72 h |

Theoretical Oxygen Demand: $3,422 \frac{mg}{mg}$ Theoretical Carbon Dioxide: $3,138 \frac{mg}{mg}$

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Shall not be classified as a reproductive toxicant.

May cause drowsiness or dizziness.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

gastrointestinal complaints, nausea, vomiting, aspiration hazard

• If in eyes

essentially non-irritating

irritant effects, vertigo, dizziness, fatigue, narcosis

• If on skin

causes skin irritation

Other information

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.

11.3 Information on other hazards

Very toxic to aquatic life with long lasting effects.

| Endpoint | Value | Species | Source | Exposure time | |
|----------|------------------------------------|-----------------------|--------|------------------|--|
| LC50 | 4,53 ^{mg} / _l | fish | ECHA | 96 h | |
| EC50 | 0,9 ^{mg} / _l | aquatic invertebrates | ECHA | 48 h | |
| ErC50 | 9,317 ^{mg} / _l | algae | ECHA | 72 h | |

12.2 Persistence and degradability

acc. to Regulation (EC) No. 1907/2006 (REACH)

Cyclohexane ROTISOLV® Pestilyse® ≥99,5 %

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| Process of degradability | | |
|--------------------------|------------------|------|
| Process | Degradation rate | Time |
| biotic/abiotic | 77 % | 28 d |

12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

| n-octanol/water (log KOW) | 3,44 (pH value: 7, 25 °C) (ECHA) |
|---------------------------|----------------------------------|
| BCF | 167 (ECHA) |

12.4 Mobility in soil

| Henry's law constant | 14.900 ^{Pa m³} / _{mol} at 20 °C (ECHA) |
|--|--|
| The Organic Carbon normalised adsorption coefficient | 2,89 (ECHA) |

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Properties of waste which render it hazardous

HP 3 flammable

HP 4 irritant - skin irritation and eye damage

HP 5 specific target organ toxicity (STOT)/aspiration toxicity

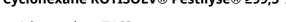
HP 14 ecotoxic

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acc. to Regulation (EC) No. 1907/2006 (REACH)

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13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number or ID number

ADRRID UN 1145 IMDG-Code UN 1145 ICAO-TI UN 1145

14.2 UN proper shipping name

ADRRID CYCLOHEXANE IMDG-Code CYCLOHEXANE ICAO-TI Cyclohexane

14.3 Transport hazard class(es)

ADRRID 3
IMDG-Code 3
ICAO-TI 3

14.4 Packing group

ADRRID II
IMDG-Code II
ICAO-TI II

14.5 Environmental hazards hazardous to the aquatic environment

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information

Proper shipping name CYCLOHEXANE

Particulars in the transport document UN1145, CYCLOHEXANE, 3, II, (D/E), environment-

ally hazardous

Classification code F1

Danger label(s) 3, "Fish and tree"





Environmental hazards yes (hazardous to the aquatic environment)

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acc. to Regulation (EC) No. 1907/2006 (REACH)

Cyclohexane ROTISOLV® Pestilyse® ≥99,5 %

article number: T163

Excepted quantities (EQ) E2 Limited quantities (LQ) 1 L Transport category (TC) 2 Tunnel restriction code (TRC) D/E 33 Hazard identification No

Emergency Action Code Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional

information

Classification code F1

3. "Fish and tree" Danger label(s)



Environmental hazards Yes

Hazardous to water

3YE

Excepted quantities (EQ) E2 Limited quantities (LQ) 1 L **Transport category (TC)** 2 **Hazard identification No** 33

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name **CYCLOHEXANE**

Particulars in the shipper's declaration UN1145, CYCLOHEXANE, 3, II, -20°C c.c., MARINE

POLLUTANT

Marine pollutant **YES** (hazardous to the aquatic environment)

Danger label(s) 3, "Fish and tree"





Special provisions (SP)

Excepted quantities (EQ) E2 Limited quantities (LQ) 1 L

EmS F-E, S-D

Stowage category

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Cyclohexane

Particulars in the shipper's declaration UN1145, Cyclohexane, 3, II

Environmental hazards yes (hazardous to the aquatic environment)

3 Danger label(s)



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acc. to Regulation (EC) No. 1907/2006 (REACH)

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article number: T163

Excepted quantities (EQ) E2
Limited quantities (LQ) 1 L



SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Seveso Directive

| 2012/ | 2012/18/EU (Seveso III) | | | | |
|-------|--|---|-------|--|--|
| No | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes | | |
| E1 | environmental hazards (hazardous to the aquatic environment, cat. 1) | 100 200 | 56) | | |

Notation

56) Hazardous to the Aquatic Environment in category Acute 1 or Chronic 1

Deco-Paint Directive

| VOC content | 100 % |
|-------------|---------------------------------|
| VOC content | 780 ^g / _l |

Industrial Emissions Directive (IED)

| VOC content | 100 % |
|-------------|---------------------------------|
| VOC content | 780 ^g / _l |

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Water Framework Directive (WFD)

not listed

Regulation on the marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

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acc. to Regulation (EC) No. 1907/2006 (REACH)

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article number: T163



National regulations(GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

not listed

Restrictions according to GB REACH, Annex 17

| Dangerous | substances wi | th restrictio | ns (GR RF/ | ACH Ann | AV 171 |
|-----------|---------------|---------------|------------|---------|--------|

| Name of substance | Name acc. to inventory | CAS No | No |
|-------------------|--|----------|----|
| Cyclohexane | Cyclohexane | 110-82-7 | 57 |
| Cyclohexane | this product meets the criteria for classi- fication in accordance with Regulation No 1272/2008/EC | | 3 |
| Cyclohexane | flammable / pyrophoric | | 40 |

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

| Country | Inventory | Status |
|---------|------------|------------------------------|
| AU | AIIC | substance is listed |
| CA | DSL | substance is listed |
| CN | IECSC | substance is listed |
| EU | ECSI | substance is listed |
| EU | REACH Reg. | substance is listed |
| JP | CSCL-ENCS | substance is listed |
| JP | ISHA-ENCS | substance is listed |
| KR | KECI | substance is listed |
| MX | INSQ | substance is listed |
| NZ | NZIoC | substance is listed |
| PH | PICCS | substance is listed |
| TR | CICR | substance is listed |
| TW | TCSI | substance is listed |
| US | TSCA | substance is listed (ACTIVE) |
| VN | NCI | substance is listed |

Legend

AIIC CICR CSCL-ENCS

DSL ECSI

Australian Inventory of Industrial Chemicals
Chemical Inventory and Control Regulation
List of Existing and New Chemical Substances (CSCL-ENCS)
Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China
National Inventory of Chemical Substances
Inventory of Existing and New Chemical Substances (ISHA-ENCS)
Korea Existing Chemicals Inventory
National Chemical Inventory
New Zealand Inventory of Chemicals
Philippine Inventory of Chemicals and Chemical Substances (PICCS) **IECSC**

INSQ

ISHA-ENCS KFCI NCI

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acc. to Regulation (EC) No. 1907/2006 (REACH)

Cyclohexane ROTISOLV® Pestilyse® ≥99,5 %

article number: T163

Legend

REACH Reg. REACH registered substances
TCSI Taiwan Chemical Substance Inventory
TSCA Toxic Substance Control Act

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety- relev- ant |
|---------|--|---|--------------------------|
| 2.3 | Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. | | yes |
| 2.3 | | Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%. | yes |
| 15.1 | VOC content: 100 % 780 ^g / _l | VOC content: 100 % | yes |
| 15.1 | | VOC content: 780 ^g / _l | yes |
| 15.1 | | National inventories: change in the listing (table) | yes |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|------------|--|
| 2006/15/EC | Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC |
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road) |
| BCF | Bioconcentration factor |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| ED | Endocrine disruptor |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |

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| Abbr. | Descriptions of used abbreviations |
|-----------|---|
| EmS | Emergency Schedule |
| ErC50 | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control |
| GB CLP | The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended) |
| GB REACH | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended) |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | International Maritime Dangerous Goods Code |
| index No | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 |
| IOELV | Indicative occupational exposure limit value |
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval |
| LD50 | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval |
| LEL | Lower explosion limit (LEL) |
| NLP | No-Longer Polymer |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| STEL | Short-term exposure limit |
| TWA | Time-weighted average |
| UEL | Upper explosion limit (UEL) |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and very Bioaccumulative |
| WEL | Workplace exposure limit |

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

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List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|---|
| H225 | Highly flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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