

2.3. Other hazards

Other hazards not contributing to the classification : Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---------|---|
| Cyclohexane | (CAS No) 110-82-7 (EC no) 203-806-2 (EC index no) 601-017-00-1 (REACH-no) 01-2119463273-41 | 20 - 30 | Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | (EC no) 927-510-4 (EC index no) 927-510-4 | 10 - 30 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| acetone, propan-2-one, propanone | (CAS No) 67-64-1 (EC no) 200-662-2 (EC index no) 606-001-00-8 | 10 - 20 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| Hydrocarbons, C6 isoalkanes, <5% n-hexane | (EC no) 931-254-9 (REACH-no) 01-2119484651-34 | 5 - 15 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. Take victim to a doctor if irritation persists.

First-aid measures after inhalation : Remove the victim into fresh air. In case of respiratory collapse: apply mouth-to-mouth resuscitation. When there is no quick recovery : consult a doctor/medical service.

First-aid measures after skin contact : Rinse with water. Wash with water and soap. Take victim to a doctor if irritation persists. Repeated or prolonged contact with the product may cause skin diseases.

First-aid measures after eye contact : Rinse immediately with plenty of water. Take victim to an ophtalmologist if irritation persists.

First-aid measures after ingestion : When there is no quick recovery : consult a doctor/medical service. Do not induce vomiting.

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

Symptoms/injuries : Dizziness. Nausea. Dry skin. Headache. Unconsciousness. skin irritation.

Symptoms/injuries after skin contact : Harmful when absorbed into the body through the skin. ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: May produce an allergic reaction. Irritating to skin. May cause skin irritation / dermatitis.

Symptoms/injuries after eye contact : Irritating to eyes. Pain. Redness of the eye tissue.

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

Contains: petrol. Causes damage to the central nervous system.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry powder. Carbon dioxide. Water haze. Carbon dioxide. Powder. Foam. Sand. sand/earth.

Unsuitable extinguishing media : Do not use a high volume water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : May form flammable en explosive vapour-air mixture. Possible ignition from a distance. Floats on water and my be ignited again.

Explosion hazard : Atex klasse IIA, T3.

5.3. Advice for firefighters

Precautionary measures fire : Evacuate all personnel that isn't necessary.

Firefighting instructions : Eliminate all ignition sources if safe to do so. Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment. Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
 Other information : Cool closed containers exposed to fire with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation. Avoid contact with skin and eyes. No naked flames or sparks. In order to rule out potential electrostatic discharge production, the system must be adequately grounded. Do not inhale vapour. Stop engines and no smoking. Shut off leaks if without risks.

6.1.1. For non-emergency personnel

Protective equipment : Use protective clothing. See Heading 8.
 Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and gloves. Wear a self contained breathing apparatus.
 Emergency procedures : Ventilate area. Stop leak if safe to do so. Stop release.

6.2. Environmental precautions

Substance must not be discharged into the sewer.

6.3. Methods and material for containment and cleaning up

For containment : Shut off leaks if without risks. Contain released substance, pump into suitable containers. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.
 Methods for cleaning up : Wash down leftovers with plenty of water.
 Other information : May form flammable vapour-air mixture.

6.4. Reference to other sections

Exposure controls and personal protection. See Heading 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : if necessary: Ventilation, local exhaust, or breathing protection. In use, may form flammable vapour-air mixture. Handle empty containers with care because residual vapours are flammable. ventilate the area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Precautions for safe handling : Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not get in eyes, on skin, or on clothing. Vapours are heavier than air and could spread above ground for a great distance till their source before exploding. No naked flames, sparks, and do not smoke. Do not handle until all safety precautions have been read and understood. Avoid ignition sources and static discharges. Provide good ventilation in process area to prevent formation of vapour. Prevent build-up of electrostatic charges (e.g., by grounding).
 Handling temperature : 15 - 25 °C
 Hygiene measures : Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Use explosion-proof electrical/ventilating/lighting/... equipment. Ensure adequate ventilation.
 Storage conditions : Store in original container. Keep container tightly closed.
 Incompatible materials : Direct sunlight. Heat sources. Sources of ignition.
 Maximum storage period : 12 months
 Storage temperature : 10 - 20 °C
 Storage area : Keep container tightly closed in a cool, well-ventilated place. Keep away from direct sunlight, heat sources and sources of ignition. Fireproof storeroom. Keep only in the original container.
 Special rules on packaging : meet the legal requirements.

7.3. Specific end use(s)

Contact adhesive.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Cyclohexane (110-82-7) | | |
|------------------------|---|-----------------------|
| EU | IOELV TWA (mg/m ³) | 700 mg/m ³ |
| EU | IOELV TWA (ppm) | 200 ppm |
| Belgium | Limit value (mg/m ³) | 350 mg/m ³ |
| Belgium | Limit value (ppm) | 100 ppm |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 700 mg/m ³ |
| Germany | TRGS 900 Occupational exposure limit value (ppm) | 200 ppm |

| Cyclohexane (110-82-7) | | |
|---|--|-----------------------------|
| Germany | TRGS 900 Limitation of exposure peaks (mg/m ³) | 800 mg/m ³ |
| Germany | TRGS 900 Limitation of exposure peaks (ppm) | 2800 ppm |
| acetone, propan-2-one, propanone (67-64-1) | | |
| Belgium | Limit value (mg/m ³) | 1210 mg/m ³ 2009 |
| Belgium | Limit value (ppm) | 500 ppm 2009 |
| Belgium | Short time value (mg/m ³) | 2420 mg/m ³ 2009 |
| Belgium | Short time value (ppm) | 1000 ppm 2009 |

8.2. Exposure controls

| | |
|-----------------------------------|---|
| Appropriate engineering controls | : Ensure adequate ventilation. If local exhaust is insufficient, wear full-face mask. |
| Personal protective equipment | : In case of splash hazard: safety glasses. Gloves. |
| Materials for protective clothing | : synthetic material. latex. polyethylene/ethylenevinylalcohol. PVC. synthetic rubber |
| Hand protection | : solvent-resistant gloves |
| Eye protection | : Safety glasses |
| Skin and body protection | : Standard working clothes |
| Respiratory protection | : Ensure adequate ventilation. If local exhaust is insufficient, wear full-face mask. |



Environmental exposure controls : See section 6,7, 12 en 13.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---------------------------|---|
| Physical state | : Liquid |
| Colour | : Yellow. Brown-yellow. |
| Odour | : aromatic odour. |
| Boiling point | : 55 °C |
| Flash point | : -26 °C |
| Auto-ignition temperature | : > 200 °C |
| Vapour pressure | : 160 hPa 20°C |
| Density | : 0,81 g/cm ³ ± 0.05 |
| Solubility | : Water: insoluble in water |
| Viscosity, dynamic | : 250 - 350 mPa.s (20°C Spindel 4 20RPM) |
| Explosive properties | : Product is not explosive but may form flammable/explosive vapour-air mixture. Explosion Class: IIa, T3. |
| Explosive limits | : 1,1 - 7,4 vol % |

9.2. Other information

Other properties : Contains volatile component(s).

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Vapours may form flammable and explosive mixture with air.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

fire, naked flames. sparks. Heat. direct sunlight.

10.5. Incompatible materials

When liquid avoid. Water. Plastic.

10.6. Hazardous decomposition products

Hazardous smoke may be released during heating until decomposition.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| Cyclohexane (110-82-7) | |
|---|-----------------|
| LD50 oral rat | > 5000 kilogram |
| LD50 dermal rat | > 2000 mg/kg |
| acetone, propan-2-one, propanone (67-64-1) | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | > 15000 mg/kg |
| LC50 inhalation rat (mg/l) | 76 mg/l/4h |

Skin corrosion/irritation : Irritant to the skin. in case of longer skin contact irritation can appear, i.g.degrease

Serious eye damage/irritation : Eye irritation

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Floats on water, evaporates quickly, danger of pollution of drinking water when large quantities of the product enters the soil. . Avoid undiluted product to come into sewer or superficial water.

Ecology - water : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

| Cyclohexane (110-82-7) | |
|---|--|
| LC50 fishes 1 | 4,53 mg/l (Pimephales promelas) |
| EC50 Daphnia 1 | 0,9 mg/l 48h |
| EC50 other aquatic organisms 1 | 3,4 mg/l 72h (Selenastrum capricornutum) |
| acetone, propan-2-one, propanone (67-64-1) | |
| LC50 fishes 1 | > 5000 mg/l 96u |
| EC50 Daphnia 1 | > 10000 mg/l 48u |

12.2. Persistence and degradability

| Cyclohexane (110-82-7) | |
|---|------------------------|
| Persistence and degradability | Readily biodegradable. |
| acetone, propan-2-one, propanone (67-64-1) | |
| Persistence and degradability | Readily biodegradable. |

12.3. Bioaccumulative potential

| Cyclohexane (110-82-7) | |
|---|---------------------------------|
| Log Pow | 3,4 |
| Bioaccumulative potential | None reasonably foreseeable. |
| acetone, propan-2-one, propanone (67-64-1) | |
| Log Pow | -0,24 |
| Bioaccumulative potential | No significant bioaccumulation. |

12.4. Mobility in soil

| Cyclohexane (110-82-7) | |
|-------------------------------|---------------------|
| Ecology - soil | Insoluble in water. |

12.5. Results of PBT and vPvB assessment

| Component | |
|--|---|
| Cyclohexane (110-82-7) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| acetone, propan-2-one, propanone (67-64-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

Additional information : Handle uncleaned empty containers as highly flammable and dangerous.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 1133
 UN-No. (IMDG) : 1133
 UN-No.(IATA) : 1133
 UN-No.(ADN) : 1133
 UN-No. (RID) : 1133

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ADHESIVES, containing a flammable liquid
 Proper Shipping Name (IMDG) : ADHESIVES, containing a flammable liquid
 Proper Shipping Name (IATA) : ADHESIVES, containing a flammable liquid
 Proper Shipping Name (ADN) : ADHESIVES, containing a flammable liquid
 Proper Shipping Name (RID) : ADHESIVES, containing a flammable liquid
 Transport document description (ADR) : UN 1133 ADHESIVES, containing a flammable liquid, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS
 Transport document description (IMDG) : UN 1133 , 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3 (N)
 Danger labels (ADR) : 3, N



IMDG

Transport hazard class(es) (IMDG) : 3 (N)
 Danger labels (IMDG) : 3, N



IATA

Transport hazard class(es) (IATA) : 3 (N)
 Hazard labels (IATA) : 3, N



ADN

Transport hazard class(es) (ADN) : 3

Danger labels (ADN) : 3



RID

Transport hazard class(es) (RID) : 3 (N)

Danger labels (RID) : 3, N



14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR) : F1

Special provisions (ADR) : 640C

Vehicle for tank carriage : FL

Transport category (ADR) : 2

Tunnel restriction code (ADR) : D/E

14.6.2. Transport by sea

Transport regulations (IMDG) : Subject to the provisions

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-D

14.6.3. Air transport

14.6.4. Inland waterway transport

Not subject to ADN : No

14.6.5. Rail transport

Carriage prohibited (RID) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions

Vitago 1057 is not on the REACH Candidate List

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

Water hazard class (WGK) : 2 - hazard to waters

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Data sources : The information supplied has been based upon the current level of information available, for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty.

Other information : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Full text of H- and EUH-phrases:

| | |
|-------------------|--|
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H225 | Highly flammable liquid and vapour |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H336 | May cause drowsiness or dizziness |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H411 | Toxic to aquatic life with long lasting effects |

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

Version History.

Version 1.0 June 1st 2015 New release for Classification, Labelling Packaging Regulations