

Printing date 06/07/2016 Reviewed on 05/10/2016

1 Identification

Product identifier

Trade name: Cyclopentane PU

 Article number:
 206621

 CAS Number:
 287-92-3

 Index number:
 601-030-00-2

Application of the substance /

the mixture Solvents

Details of the supplier of the safety data sheet

Manufacturer/Supplier: Haltermann Carless Deutschland GmbH

Schlengendeich 17

D-21107 Hamburg, Germany Tel.: +49 40 333 18 0

E-mail: Info-haltermann@h-c-s-group.com

Information department: Product Stewardship **Emergency telephone number:** Infraserv: +49 69 305 6418

Chemtrec: +1 800 424 9300

2 Hazard(s) identification

Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor. STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Label elements

GHS label elements The substance is classified and labeled according to the Globally Harmonized System

(GHS).

Hazard pictograms







GHS02

2 GHS07

GHS08

Signal word Danger

Hazard-determining components

of labeling: cyclopentane

Hazard statementsH225 Highly flammable liquid and vapor.
H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/

national/international regulations.



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Classification system: NFPA ratings (scale 0 - 4)

Health = 1
Fire = 3
Reactivity = 0

HMIS-ratings (scale 0 - 4)

HEALTH 1 Health = 1
FIRE 3 Fire = 3
REACTIVITY 0 Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances

CAS No. Description 287-92-3 cyclopentane

Identification number(s)

Index number: 601-030-00-2

4 First-aid measures

Description of first aid measures

General information: Immediately remove any clothing soiled by the product. **After inhalation:** Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately rinse with water.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: Do not induce vomiting; immediately call for medical help.

Information for doctor:

Most important symptoms and

effects, both acute and delayed No further relevant information available.

Danger Aspiration hazard

Indication of any immediate medical attention and special

treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol

resistant foam.

For safety reasons unsuitable

extinguishing agents: Water with full jet

Special hazards arising from the

substance or mixtureNo further relevant information available.

Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

Personal precautions, protective equipment and emergency

procedures Wear protective equipment. Keep unprotected persons away.





Printing date 06/07/2016 Reviewed on 05/10/2016

Trade name: Cyclopentane PU

Environmental precautions: Do not allow product to reach sewage system or any water course.

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for

containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders,

sawdust).

Ensure adequate ventilation.

Reference to other sections See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:

Precautions for safe handling Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Information about protection

against explosions and fires: Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by

storerooms and receptacles: Store in a cool location.

Information about storage in one

common storage facility: Not required.

Further information about

storage conditions: Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about

design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:

287-92-3 cyclopentane

REL Long-term value: 1720 mg/m³, 600 ppm TLV Long-term value: 1720 mg/m³, 600 ppm

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment: General protective and hygienic

measures: Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

Do not ingest.

Breathing equipment: Ensure good ventilation. This can be achieved by using a local exhaustion or general

exhaust system. If these measures are insufficient to keep the solvent vapour

concentration below the workplace limit, wear an adequate respiratory protective device.





Printing date 06/07/2016 Reviewed on 05/10/2016

Trade name: Cyclopentane PU

Filter AX

Protection of hands: Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the

preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion

and the degradation

Material of gloves The selection of the suitable gloves does not only depend on the material, but also on

further marks of quality and varies from manufacturer to manufacturer.

Nitrile rubber, NBR

> 0,38 mm

Penetration time of glove

material > 480 min (EN 374) Eye protection: Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form: Fluid
Color: Colorless
Odor: Characteristic
Odor threshold: Not determined.

pH-value: Not determined.

Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
49 °C (120 °F)

Flash point:
-35 °C (-31 °F)

Not applicable.

Ignition temperature:
380 °C (716 °F)

Decomposition temperature:
Not determined.

Not determined.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are

possible.

Explosion limits:

Lower: 1.3 Vol % **Upper:** 8 Vol %

Vapor pressure at 20 °C (68 °F): 346 hPa (260 mm Hg)

Density at 15 °C (59 °F): 0.746 g/cm³ (6.225 lbs/gal) (DIN 51 757)

Relative density
Not determined.

Vapor density
Not determined.

Evaporation rate
Not determined.

Solubility in / Miscibility with

Water at 20 °C (68 °F): 0.15 g/l





Printing date 06/07/2016 Reviewed on 05/10/2016

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Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

Other information No further relevant information available.

10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition /

conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous

reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition

products: Carbon monoxide

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

287-92-3 cyclopentane

Oral LD50 > 2000 mg/kg (rat) (OECD 401) Inhalative LC50 /4 h > 25.3 mg/L (rat) (OECD 403)

Primary irritant effect:

on the skin: No irritant effect.
on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological

information: Inhalation of concentrated vapors as well as oral intake will lead to anaesthesia-like

conditions and headache, dizziness, etc.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

Substance is not listed.

NTP (National Toxicology Program)

Substance is not listed.

OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

*12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potentialNo further relevant information available.



Printing date 06/07/2016 Reviewed on 05/10/2016

Trade name: Cyclopentane PU

Mobility in soil No further relevant information available.

Ecotoxical effects:

Remark: Harmful to fish

Additional ecological information:

General notes: Water hazard class 1 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course

or sewage system.

Harmful to aquatic organisms

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach

sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

*14 Transport information

UN-Number

DOT, ADR, IMDG, IATA UN1146

UN proper shipping name

DOT Cyclopentane
ADR 1146 Cyclopentane
IMDG, IATA CYCLOPENTANE

Transport hazard class(es)

DOT



Class 3 Flammable liquids

Label 3

ADR



Class 3 (F1) Flammable liquids

Label



Printing date 06/07/2016 Reviewed on 05/10/2016

Trade name: Cyclopentane PU

IMDG, IATA



Class 3 Flammable liquids

Label 3

Packing group

DOT, ADR, IMDG, IATA

Environmental hazards:

Marine pollutant: No

Special precautions for user Warning: Flammable liquids

Danger code (Kemler):33EMS Number:F-E,S-DStowage CategoryE

Transport in bulk according to Annex II of MARPOL73/78

and the IBC Code Not applicable.

Transport/Additional information:

DOT

Quantity limitations On passenger aircraft/rail: 5 L

On cargo aircraft only: 60 L

ADR

Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

IMDG

Limited quantities (LQ)

Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

UN 1146 CYCLOPENTANE, 3, II

*15 Regulatory information

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

Sara

Section 355 (extremely hazardous substances):

Substance is not listed.

Section 313 (Specific toxic chemical listings):

Substance is not listed.

TSCA (Toxic Substances Control Act):

Substance is listed.

Proposition 65

Chemicals known to cause cancer:

Substance is not listed.



Printing date 06/07/2016 Reviewed on 05/10/2016

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Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

Chemicals known to cause developmental toxicity:

Substance is not listed.

Cancerogenity categories

EPA (Environmental Protection Agency)

Substance is not listed.

TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

Chemical safety assessment: A Chemical Safety Assessment has been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation / last

revision 06/07/2016 / 30

Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations

Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning

the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

Data compared to the previous version altered.