

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name

Heptane

Name: hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (CAS: 64742-49-0, EC: 927-510-4)**REACH Registration number:** 01-2119475515-33**Product code**

[246665]

<https://my.chemius.net/p/8JhyQX/en/pd/en>

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

Relevant identified uses

Distribution of the substance.

Intermediate.

Raw material for coatings.

Raw material for the industry.

Lubricant.

Metalworking fluid.

Binder.

Fuel.

Functional fluids.

Rubber production and processing.

Polymer processing.

Use in cleaning agents (detergents).

Manufacture of other substances and mixtures (materials).

Laboratory chemicals.

Release agent.

Uses advised against

This product must not be used in applications other than those recommended in Section 1, without first seeking the advice of the supplier.

1.3 Details of the supplier of the safety data sheet

Supplier

Vidara Austria GmbH

Pachern Hauptstraße 30/1

A-8075 Hart bei Graz, Austria

+43 3135 229 519

info.austria@vidara.com

productmaster@vidara.com

1.4 Emergency Telephone Number

Emergency

111

Supplier

+43 3135 229 519

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Flam. Liq. 2; H225 Highly flammable liquid and vapour.

Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.

Skin Irrit. 2; H315 Causes skin irritation.
STOT SE 3; H336 May cause drowsiness or dizziness.
Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)



Signal word: DANGER

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.
H411 Toxic to aquatic life with long lasting effects.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243 Take action to prevent static discharges.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

Contains:
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

2.3 Other hazards

PBT/vPvB
No information.

Endocrine disrupting properties
The product does not contain substances with the potential for endocrine disorders.

Additional information
The substance does not meet the criteria for classification as PBT or vPvB. The substance is not included in the list of substances with endocrine disrupting properties established in accordance with Article 59 of the REACH Regulation. The substance is not identified as a substance with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0 927-510-4 - 01-2119475515-33	<= 100	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	/	P

3.2 Mixtures
For substances see 3.1.

Notes for substances

P

The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes.

Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

Product description

UVCB. Benzene content: < 0.1 %.

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures****General notes**

Take off all contaminated clothing immediately. Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Show the safety data sheet and label to the physician. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms occur, seek medical advice.

Following skin contact

Wash affected skin areas immediately with plenty of water and soap. If symptoms develop and persist, seek medical attention. Wash contaminated clothes and shoes before reuse.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Seek medical help.

Following ingestion

Do not induce vomiting! Aspiration hazard if swallowed. Can enter lungs and cause damage. If vomiting occurs, the patient should hold the head lower than the hips, because it reduces the possibility of aspiration. Immediately consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed**Following inhalation**

Vapours may cause drowsiness and dizziness. Symptoms include: headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. May be fatal if swallowed and enters airways. Suffocation.

Following skin contact

Irritating to skin. Itching, redness, pain. Prolonged and repeated exposure may cause degreasing of the skin. Dermatitis.

Following eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. May be fatal if swallowed and enters airways. Aspiration into the lungs can cause chemical pneumonitis.

4.3 Indication of any immediate medical attention and special treatment needed

Causes central nervous system depression. Potential for chemical pneumonitis. Potential for chemical pneumonitis. To be considered: gastric lavage with protection of the respiratory tract, administration of activated charcoal.

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO₂).

Fire extinguishing powder.

Water spray. Extinguish large fires with water spray or alcohol-resistant foam.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture**Hazardous combustion products**

The combustion of this substance causes a complex mixture of solids, liquids and gases to develop in the air. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO₂).

5.3 Advice for firefighters**Protective actions**

Highly flammable liquid and vapour. In case of fire or heating do not breathe fumes/vapours. Cool the endangered containers with water spray. Move undamaged containers from immediate hazard area if it can be done safely. Prolonged heating can cause an explosion. Vapors are heavier than air and may travel along ground. Vapours can travel to a source of ignition and flash back.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing (BS EN 469) for firefighters (including helmets (BS EN 443), protective boots (BS EN 15090) and gloves (BS EN 659)) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel****Protective equipment**

Use personal protective equipment (Section 8).

Precautionary measures

Ensure adequate ventilation. The vapours form explosive mixtures with air. Remove all possible ignition sources. Protect from flames and sparks. Take precautionary measures against static discharges.

Emergency procedures

Avoid contact with skin, eyes and clothing. Prevent access to unprotected personnel. Prevent access to unauthorised personnel. Evacuate the danger zone. Do not breathe vapour or mist.

For emergency responders

Use personal protective equipment. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

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

Stem the spill if this does not pose risks. Contain spillages with non-combustible absorbents, e.g. sand, earth, vermiculite, diatomaceous earth.

For cleaning up

Use spark-proof tools. Use only explosion-proof instruments and equipment. Make sure the leakage site is well aired. Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Dispose in accordance with applicable regulations (see Section 13).

Other information

Vapours are heavier than air and can form an explosive mixture with air. See Section 7: HANDLING AND STORAGE.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Vapours are heavier than air and spread along the floor. They form explosive mixtures with air. Use only in well-ventilated areas. Keep away from sources of ignition - no smoking. Use spark-proof tools. Use explosively safe equipment (ventilators, lighting, working instruments and devices,...); Limit the rate of pumping/transfer to avoid the release of electrostatic discharge. Avoid splash filling. Do not use compressed air for filling, unloading or processing operations.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

Other measures

No information.

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety procedures. Wear suitable protective equipment; see Section 8. Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Prevent prolonged and repeated contact with skin. Do not eat, drink or smoke while working.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Store in accordance with local regulations. Adhere to the provisions of the Law on Water Protection. Keep in a cool, dry and well ventilated place. Keep away from heat and sources of ignition. Protect against direct sunlight. Keep away from oxidising substances.

Packaging materials

The original container of producer. For containers, or container linings use unalloyed steel, stainless steel. For container paints, use epoxy paint, zinc silicate paint. Unsuitable material: avoid prolonged contact with natural, butyl or nitrile rubbers.

Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers. Use appropriate container to avoid environmental contamination.

Storage temperature

No information.

Storage class

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations

See identified uses in Section 1.2.

Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

Name	mg/m ³	ml/m ³	Short-term value mg/m ³	Short-term value ml/m ³	Remark	Biological Tolerance Values
Normal and branched chain alkanes ≥C7	1200	/	/	/	/	/
n-Hexane (110-54-3)	72	20	/	/	/	/

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values**For product**

No information.

For components

Name	Type	Exposure route	exp. frequency	Remark	Value
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Worker	inhalation	long term systemic effects	/	5306 mg/m ³
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Worker	dermal	long term systemic effects	/	13964 mg/kg bw/day
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Consumer	inhalation	long term systemic effects	/	1131 mg/m ³
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Consumer	dermal	long term systemic effects	/	1377 mg/kg bw/day
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Consumer	oral	long term systemic effects	/	1301 mg/kg bw/day

PNEC values**For product**

No information.

For components

No information.

8.2 Exposure controls**Appropriate engineering control****Substance/mixture related measures to prevent exposure during identified uses**

Handle in accordance with good industrial hygiene and safety practice. Use good personal hygiene practices – wash hands at breaks and when done working with material. The final choice of protective equipment will depend upon the risk assessment. Avoid contact with skin, eyes and clothes. Do not breathe vapours/aerosols.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Do not eat, drink or smoke while working. Remove all contaminated clothes immediately and wash them before reuse.

Technical measures to prevent exposure

Take precautionary measures against static discharges. Keep away from food, drink and animal feeding stuffs. Provide good ventilation and local exhaust in areas with increased concentration.

Personal protective equipment**Eye and face protection**

Tight fitting protective goggles (BS EN ISO 16321-1:2022).

Hand protection

Use chemical resistant gloves classified according to standard BS EN ISO 374. 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.

pH	No information.
Viscosity (kinematic)	0.5 mm ² /s at 25 °C
Solubility (Water)	insoluble
Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	60 hPa at 20 °C
Density	0.71 g/cm ³ at 20 °C
Relative vapour/gas density	No information.
Particle characteristics	No information.

9.2 Other information

Information with regard to physical hazard classes

Explosive properties	Product is not explosive. However, formation of explosive air/ vapour mixtures is possible.
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Other safety characteristics

Evaporation rate	7.6 (nBuAc=1; ASTM D 3539)
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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Highly flammable liquid and vapour.

10.2 Chemical stability

No danger of decomposition if stored and used according to instructions.

10.3 Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air. Reacts with strong oxidising agents.

10.4 Conditions to avoid

Heat, flames, sparks.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

Hazardous decomposition products are not expected to form during normal storage. In case of fire/explosion vapours/gases that pose a health hazard are released. Carbon dioxide; Carbon monoxide.

SECTION 11: TOXICOLOGICAL INFORMATION

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

(a) Acute toxicity

For product

Exposure route	Type	Species	Time	Value	Method	Remark
oral	LD ₅₀	rat	/	> 2000 mg/kg	/	/
dermal	LD ₅₀	rat	/	> 2000 mg/kg	/	/
inhalation	LC ₅₀	rat	4 h	> 20 mg/l	/	/

Additional information

Based on available data, the classification criteria are not met.

(b) Skin corrosion/irritation

No information.

Additional information

Causes skin irritation.

(c) Serious eye damage/irritation

No information.

Additional information

Based on available data, the classification criteria are not met.

(d) Respiratory or skin sensitisation

No information.

Additional information

Based on the available data does not meet the criteria for classification.

(e) (Germ cell) mutagenicity

For product

Type	Species	Time	result	Method	Remark
/	/	/	Based on available data, the classification criteria are not met.	/	/

(f) Carcinogenicity

For product

Exposure route	Type	Species	Time	Value	result	Method	Remark
/	/	/	/	/	Based on available data, the classification criteria are not met.	/	/

(g) Reproductive toxicity

For product

Reproductive toxicity type	Type	Species	Time	Value	result	Method	Remark
/	/	/	/	/	Based on the available data does not meet the criteria for classification.	/	/

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction. The product does not contain substances with the potential for endocrine disorders.

(h) STOT-single exposure

No information.

Additional information

STOT-(single exposure): May cause drowsiness or dizziness.

(i) STOT-repeated exposure

For product

Exposure route	Type	Species	Time	Exposure	organ	Value	result	Method	Remark
/	/	/	/	/	liver, kidney, nerves	/	May cause damage to organs through prolonged or repeated exposure.	/	/

Additional information

Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. STOT RE - repeated exposure: Based on available data, the classification criteria are not met.

(j) Aspiration hazard

For product

result	Method	Remark
Can seriously harm lungs at aspiration through swallowing and vomiting,.	/	/

Additional information

May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Other information

No information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

For product

Type	Exposure time	Species	Organism	Method	Remark	Value
EC ₅₀	/	aquatic invertebrates	/	/	/	1 - 10 mg/L
LC ₅₀	/	fish	/	/	/	10 - 100 mg/L

Chronic (long-term) toxicity

No information.

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For product

Type	Rate	Time	Evaluation	Method	Remark
/	/	/	readily biodegradable	/	/

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

No information.

Bioconcentration factor (BCF)

No information.

Additional information

Danger of bioaccumulation.

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

No information.

Additional information

Floats on water.

12.5 Results of PBT and vPvB assessment

The substance is not classified as persistent, toxic, or a substance that can accumulate (PBT) or very persistent and very bioaccumulative (vPvB) substance.

12.6 Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

12.7 Other adverse effects

The product does not contain substances with the potential for endocrine disorders.

12.8 Additional information**For product**

Toxic to aquatic life with long lasting effects. Do not allow to reach ground water, water courses or sewage system. This product is highly volatile and will rapidly evaporate to the air if released into the environment. Water hazard class 2 (self-assessment): hazardous for water.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Product / Packaging disposal****Waste chemical**

Waste is classified as hazardous waste. Reuse or recycle if possible, otherwise incinerate in an authorized incineration facility. Handle in accordance with regulations. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Waste codes should be assigned by the user based on the application for which the product was used. Do not dispose together with household garbage. Do not discharge into drains, water courses or onto the ground. Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

No information.

Packaging

Uncleaned containers should not be perforated, cut or welded. Loaned packaging: After completely emptying the packaging, immediately close tightly and return to the supplier without cleaning. Care must be taken that no foreign substances enter the packaging! Leftovers in the containers may cause the risk of explosion. Cleaned uncontaminated packaging may be taken for recycling. Empty containers are suitable for reuse after proper cleaning. Dispose of in accordance with applicable waste disposal regulation.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
UN 1206	UN 1206	UN 1206	UN 1206
14.2 UN proper shipping name			
HEPTANES	HEPTANES (hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)	HEPTANES	HEPTANES
14.3 Transport hazard class(es)			
3	3	3	3
 	 	 	 
14.4 Packing group			
II	II	II	II
14.5 Environmental hazards			
YES	Marine pollutant	YES	YES
14.6 Special precautions for user			
Limited quantities 1 L Packing Instructions P001, IBC02, R001 Transport category 2 Tunnel restriction code (D/E) Classification code F1 *For additional information see below	Limited quantities 1 L EmS F-E, S-D Flash point -5 °C *For additional information see below	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y341 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg) 1 L Packing Instructions (Pkg Inst) 353 Maximum Net Quantity/Package (Max Net Qty/Pkg) 5 L	Limited quantities 1 L
14.7 Maritime transport in bulk according to IMO instruments			
	Goods may not be carried in bulk in bulk containers, containers or vehicles.		

Additional information (ADR)
Hazard identification number: 33.

Additional information (IMDG)

Excepted quantities (EQ): Code: E2.

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

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)
not applicable

Ingredients according to Regulation (EC) No 648/2004 on detergents
No information.

Special instructions

Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Terms of restriction: 3, 40.

List of substances subject to authorisation (REACH, Annex XIV): none.

SVHC (substance of very high concern) Candidate list: The product does not contain substances on the SVHC candidate list. Water hazard class 2 (self-assessment): hazardous for water.

Technical instructions air: class: NK; content: 50-100%. Seveso P5c: FLAMMABLE LIQUIDS. Seveso III, E2: hazardous to the aquatic environment. Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers. Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Indication of changes

2.2 Label elements 2.3 Other hazards 3.1 Substances 5.3 Advice for firefighters 6.3 Methods and material for containment and cleaning up 8.1 Control parameters 8.2 Exposure controls 9.1 Information on basic physical and chemical properties 9.2 Other information 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 11.2 Information on other hazards 12.1 Toxicity 12.3 Bioaccumulative potential 12.6 Endocrine disrupting properties 14. Transport information 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Key literature references and sources for data

No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC

DSD - Dangerous Substances Directive 67/548/EEC

DU - Downstream User

EC - European Community

ECHA - European Chemicals Agency

EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)

EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No 1907/2006)
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

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.
H411 Toxic to aquatic life with long lasting effects.

Training advice

Ensure adequate training of the persons responsible for the use of chemicals.



- ☑ Provided correct labelling of the product
- ☑ Compliance with the local legislation
- ☑ Provided correct classification of the product
- ☑ Provided adequate transport data

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The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.