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, *))' `Acbl Y]a ž8 Yi IgW`UbX

&`& @JY`Y`Ya Ybfg

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

< UhUF`X`d]Wc[fUa g



Gj[bU`k cfX

DANGER

7 cbhU]bg.

n-Heptane

< UhUF`X`ghUH`Ya Ybfg

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.

DfYWU i]cbU`fmgUH`Ya Ybfg

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P271 Use only outdoors or in a well-ventilated area.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.
 P331 Do NOT induce vomiting.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/national regulation.

&`" CH Yf` \ UhUF`Xg

Dl ng]Vt`!W Ya]WU` \ UhUF`Xg

Evolution of highly flammable gases/vapours.
 Because of the high vapour pressure, containers are liable to burst if temperature rises.

< i a Ub` \ YUH` `XUb[Yfg

If swallowed or in the event of vomiting, risk of product entering the lungs.
 Has a degreasing effect on the skin.

9bj]fcba YbHU` \ UhUF`Xg

Does not contain any PBT or vPvB substances.

CH Yf` \ UhUF`Xg

Further hazards were not determined with the current level of knowledge.

G97 H-CB` .`7 ca dcg]h]cb`#-bZ`fa U]cb`cb`]b[fYX]Ybfg

DfcXi W]hmdY.

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Range [%]	Substance
90 - <100	n-Heptane
	CAS: 142-82-5, EINECS/ELINCS: 205-563-8, EU-INDEX: 601-008-00-2
	GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M = 1

7 ca a Ybhc`b`Vt`a dcbYbhdU]fg

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
 For full text of H-statements: see SECTION 16.

G97 H-CB` (. :]fghU]X`a YUgi fYg

(`% 8 YgW]d]h]cb`cZ]fghU]X`a YUgi fYg

; YbYfU`]bZ`fa U]cb

Change soaked clothing.

÷\ U U]cb

Ensure supply of fresh air.
 Remove the victim into fresh air and keep him calm.

G`]b` Vt`b]U]h

When in contact with the skin, clean with soap and water.

9m` Vt`b]U]h

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

÷[Yg]cb

Do not induce vomiting.
 Rinse out mouth and give plenty of water to drink.
 Consult a doctor immediately.

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4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
 Headache
 Vertigo
 Drowsiness
 Dizziness

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
 If swallowed or in the event of vomiting, risk of product entering the lungs.

SECTION 5: Fire-fighting measures**5.1 Extinguishing media**

Suitable extinguishing media Dry powder.
 Carbon dioxide.
 Foam.

Extinguishing media that must not be used Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
 Not combusted hydrocarbons.

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
 Use self-contained breathing apparatus.
 Cool containers at risk with water spray jet.
 Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Keep away from all sources of ignition.
 Ensure adequate ventilation.
 Use personal protective equipment.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
 Do not discharge into the drains/surface waters/groundwater.
 In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand).
 Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

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SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Use only in well-ventilated areas.
 Avoid spilling or spraying in enclosed areas.
 Provide good room ventilation even at ground level (vapours are heavier than air).
 Use solvent-resistant equipment.

Keep away from open flames, hot surfaces and sources of ignition.
 Take precautionary measures against static discharges.
 Vapours/spray can form an explosive mixture with air.
 Ignitable mixtures can be formed in the empty container.
 Use explosion-proofed equipment/fittings and non-sparking tools.

Do not eat, drink, smoke or take drugs at work.
 Remove soiled or soaked clothing.
 Cloths contaminated with product should not be kept in trouser pockets.
 Wash hands before breaks and after work.
 Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
 Provide solvent-resistant and impermeable floor.

Do not store together with oxidizing agents.
 Do not store together with acids.

Keep container tightly closed.
 Keep container in a well-ventilated place.
 Protect from heat/overheating and from sun.
 Recommended storage temperature: 15-25 °C.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection**8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (GB)**

Substance
n-Heptane
CAS: 142-82-5, EINECS/ELINCS: 205-563-8, EU-INDEX: 601-008-00-2
Long-term exposure: 500 ppm, 2085 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
n-Heptane
CAS: 142-82-5, EINECS/ELINCS: 205-563-8, EU-INDEX: 601-008-00-2
Eight hours: 500 ppm, 2085 mg/m ³

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8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	safety glasses (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: > 0,4 mm/ Viton, >480 min (EN 374-1/-2/-3). > 0,4 mm/ Nitrile rubber, >480 min (EN 374-1/-2/-3). In splash contact: > 0,4 mm/ Polychloroprene, >120 min (EN 374-1/-2/-3).
Skin protection	Solvent-resistant protective clothing.
Other	Avoid contact with eyes and skin. Do not inhale gases/vapours. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, filter A. (DIN EN 14387)
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form	liquid
Color	colourless clear
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	96,1-98,9
Flash point [°C]	-4
Flammability (solid, gas) [°C]	No information available.
Lower explosion limit	1,05 Vol. %
Upper explosion limit	6,7 Vol. %
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	35 mm Hg (20 °C)
Density [g/ml]	0,68
Bulk density [kg/m³]	not applicable
Solubility in water	immiscible
Partition coefficient [n-octanol/water]	logPow: 4,66 (CAS 142-82-5)
Viscosity	No information available.
Relative vapour density determined in air	3,45
Evaporation speed	2,7
Melting point [°C]	No information available.
Autoignition temperature [°C]	ca. 204
Decomposition temperature [°C]	No information available.

9.2 Other information

No information available.

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SECTION 10: Stability and reactivity

10.1 Reactivity

Formation of explosive gas/air mixtures.

Uncleaned empty vessels may contain product gases which can form explosive mixtures with air.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

Reactions with acids.

10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

Warming

Electrostatic charging.

10.5 Incompatible materials

Rubber, various plastics

10.6 Hazardous decomposition products

Flammable gases/vapours.

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SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Substance
n-Heptane, CAS: 142-82-5
LD50, dermal, Rabbit: 3400 mg/kg.
LD50, oral, Rat: > 2000 mg/kg.
LC50, inhalative, Rat: 103 g/m ³ (4h).

Serious eye damage/irritation Based on the available information, the classification criteria are not fulfilled.**Skin corrosion/irritation** Toxicological data of complete product are not available.
Irritant
Calculation method**Respiratory or skin sensitisation** Based on the available information, the classification criteria are not fulfilled.**Specific target organ toxicity — single exposure** Toxicological data of complete product are not available.
Vapours may cause drowsiness and dizziness.
Calculation method**Specific target organ toxicity — repeated exposure** Based on the available information, the classification criteria are not fulfilled.**Mutagenicity** Based on the available information, the classification criteria are not fulfilled.**Reproduction toxicity** Based on the available information, the classification criteria are not fulfilled.**Carcinogenicity** Based on the available information, the classification criteria are not fulfilled.**Aspiration hazard** May be fatal if swallowed and enters airways.**General remarks** Has a degreasing effect on the skin.
Inhalation causes headache/nausea.
May cause irritation of eye and skin.
May cause irritation of respiratory organs.

Toxicological data of complete product are not available.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.**SECTION 12: Ecological information****12.1 Toxicity**

Substance
n-Heptane, CAS: 142-82-5
LC50, (24h), fish: 4 mg/l.
EC50, (48h), Daphnia magna: 1,5 mg/l.

12.2 Persistence and degradability**Behaviour in environment compartments** not determined**Behaviour in sewage plant** not determined**Biological degradability** not determined**12.3 Bioaccumulative potential**

logPow: 4,66 (CAS 142-82-5)(Lit.)

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required or not conducted.

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12.6 Other adverse effects

The product is insoluble in water.

Ecological data of complete product are not available.

Henry-Konstante: 208678 Pa·m³/mol (CAS 142-82-5)(Lit.)

The product was classified on the basis of the calculation procedure of the preparation directive.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.

Coordinate disposal with the authorities if necessary.

Waste no. (recommended)

070704*

140603*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150110*

SECTION 14: Transport information**14.1 UN number**

Transport by land according to
ADR/RID 1206

Inland navigation (ADN) 1206

Marine transport in accordance with
IMDG 1206

Air transport in accordance with IATA 1206

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14.2 UN proper shipping name

Transport by land according to ADR/RID

Heptanes

- Classification Code

F1

- Label



- ADR LQ

1 I

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 2 (D/E)

Inland navigation (ADN)

Heptanes

- Classification Code

F1

- Label



Marine transport in accordance with IMDG

Heptanes

- EMS

F-E, S-D

- Label



- IMDG LQ

1 I

Air transport in accordance with IATA Heptanes

- Label

**14.3 Transport hazard class(es)**

Transport by land according to ADR/RID

3

Inland navigation (ADN)

3

Marine transport in accordance with IMDG

3

Air transport in accordance with IATA

3

14.4 Packing group

Transport by land according to ADR/RID

II

Inland navigation (ADN)

II

Marine transport in accordance with IMDG

II

Air transport in accordance with IATA

II

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14.5 Environmental hazards

Transport by land according to ADR/RID yes

Inland navigation (ADN) yes

Marine transport in accordance with IMDG MARINE POLLUTANT

Air transport in accordance with IATA yes

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

No information available.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EEC-REGULATIONS	1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2018).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (2010/75/CE)	99,5 % 680 g/l

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**16.1 Hazard statements (SECTION 03)**

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

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16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information**Customs Tariff**

not determined

Classification procedure

Flam. Liq. 2: H225 Highly flammable liquid and vapour. (On basis of test data)
 Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (Calculation method)
 Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
 STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)
 Aquatic Acute 1: H400 Very toxic to aquatic life. (On basis of test data)
 Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects. (Calculation method)

Modified position

none

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