

RUBBER CEMENT

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 1/8/2018

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Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Trade name : RUBBER CEMENT

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

1.2.1. Relevant identified uses

Main use category : Used as tire glue.

1.2.2. Uses advised against

Restrictions on use : No information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

HSUAN HAU ENTERPRISE CO.,LTD.
1F,NO.429,SEC.6,YEN-PING N.RD.,SHIH-LIN,TAIPEI TAIWAN
11172
T: 886-2-228137108
F: 886-2-28137110
E-mail: ALICE@KRONYO.COM
WWW.KRONYO.COM

Importer

1.4. Emergency telephone number

Emergency number : 886 - 2 -28137108

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2	H225
Skin corrosion/irritation, Category 2	H315
Reproductive toxicity, Category 2	H361f
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity — Repeated exposure, Category 2	H373
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. May cause drowsiness or dizziness. Causes skin irritation. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

GHS07

GHS08

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : 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.
H361f - Suspected of damaging fertility.
H373 - May cause damage to organs through prolonged or repeated exposure.
H410 - Very toxic to aquatic life with long lasting effects.

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Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P370+P378 - In case of fire: Use media other than water to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Other hazards not contributing to the classification : No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-Methylhexane	(CAS-No.) 591-76-4 (EC-No.) 209-730-6 (EC Index-No.) 601-008-00-2	24.1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-Methylpentane	(CAS-No.) 107-83-5 (EC-No.) 203-523-4 (EC Index-No.) 601-007-00-7	18.5	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
1,3-Butadiene, 2-methyl-, homopolymer	(CAS-No.) 9003-31-0 (EC-No.) 618-362-9	14.5	Not classified
Hexane	(CAS-No.) 110-54-3 (EC-No.) 203-777-6 (EC Index-No.) 601-037-00-0	12.1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361f STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
2,4-Dimethylpentane	(CAS-No.) 108-08-7 (EC-No.) 203-548-0 (EC Index-No.) 601-008-00-2	8.9	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
n-Heptane	(CAS-No.) 142-82-5 (EC-No.) 205-563-8 (EC Index-No.) 601-008-00-2	7.8	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Methylcyclopentane	(CAS-No.) 96-37-7 (EC-No.) 202-503-2	5.5	Flam. Liq. 2, H225
Resin, terpene	(CAS-No.) 9003-74-1 (EC-No.) 618-376-5	5.1	Not classified
Pentane, 2,2,3-trimethyl-	(CAS-No.) 564-02-3 (EC-No.) 209-266-4 (EC Index-No.) 601-009-00-8	1.4	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Methylcyclohexane	(CAS-No.) 108-87-2 (EC-No.) 203-624-3 (EC Index-No.) 601-018-00-7	1.1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Cyclopentane, 1,3-dimethyl-, cis-	(CAS-No.) 2532-58-3 (EC-No.) 219-793-1	0.6	Flam. Liq. 2 H225 Acute Tox. 4 H302

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2,3-Dimethylhexane	(CAS-No.) 584-94-1 (EC-No.) 209-547-1 (EC Index-No.) 601-009-00-8	0.4	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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Specific concentration limits:

Name	Product identifier	Specific concentration limits
Hexane	(CAS-No.) 110-54-3 (EC-No.) 203-777-6 (EC Index-No.) 601-037-00-0	(C >= 5) STOT RE 2, H373

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after ingestion	: Risk of lung oedema.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: high volume water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Highly flammable liquid and vapour.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ground/bond container and receiving equipment.
- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-Methylhexane (591-76-4)		
Austria	MAK (mg/m ³)	2000 mg/m ³
Austria	MAK (ppm)	500 ppm
Austria	MAK Short time value (mg/m ³)	8000 mg/m ³
Austria	MAK Short time value (ppm)	2000 ppm
Finland	HTP-arvo (8h) (mg/m ³)	1200 mg/m ³
Finland	HTP-arvo (8h) (ppm)	300 ppm
Finland	HTP-arvo (15 min)	2100 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	500 ppm
Portugal	OEL TWA (ppm)	400 ppm
Portugal	OEL STEL (ppm)	500 ppm
USA - ACGIH	ACGIH TWA (ppm)	400 ppm
USA - ACGIH	ACGIH STEL (ppm)	500 ppm
2-Methylpentane (107-83-5)		
Austria	MAK (mg/m ³)	715 mg/m ³
Austria	MAK (ppm)	200 ppm
Austria	MAK Short time value (mg/m ³)	2860 mg/m ³
Austria	MAK Short time value (ppm)	800 ppm
Finland	HTP-arvo (8h) (mg/m ³)	1800 mg/m ³
Finland	HTP-arvo (8h) (ppm)	500 ppm
Finland	HTP-arvo (15 min)	2300 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	630 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	1800 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	500 ppm
Poland	NDS (mg/m ³)	400 mg/m ³
Poland	NDSch (mg/m ³)	1200 mg/m ³
Slovenia	OEL TWA (mg/m ³)	720 mg/m ³
Slovenia	OEL TWA (ppm)	200 ppm
Slovenia	OEL STEL (mg/m ³)	2880 mg/m ³
Slovenia	OEL STEL (ppm)	800 ppm
Sweden	nivågränsvärde (NVG) (mg/m ³)	700 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	200 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	1100 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	300 ppm
Switzerland	MAK (mg/m ³)	1800 mg/m ³
Switzerland	MAK (ppm)	500 ppm

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2-Methylpentane (107-83-5)		
Switzerland	KZGW (mg/m ³)	3600 mg/m ³
Switzerland	KZGW (ppm)	1000 ppm
USA - ACGIH	ACGIH TWA (ppm)	500 ppm
USA - ACGIH	ACGIH STEL (ppm)	1000 ppm
Hexane (110-54-3)		
EU	IOELV TWA (mg/m ³)	72 mg/m ³
EU	IOELV TWA (ppm)	20 ppm
Austria	MAK (mg/m ³)	72 mg/m ³
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m ³)	288 mg/m ³
Austria	MAK Short time value (ppm)	80 ppm
Belgium	Limit value (mg/m ³)	72 mg/m ³
Belgium	Limit value (ppm)	20 ppm
Bulgaria	OEL TWA (mg/m ³)	72 mg/m ³
Bulgaria	OEL TWA (ppm)	20 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	72 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	20 ppm
Croatia	Croatia - BLV	150 µg/l Parameter: n-Hexane - Medium: blood - Sampling time: during exposure 40 ppm Parameter: n-Hexane - Medium: final exhaled air - Sampling time: during exposure 0.2 mg/g creatinine Parameter: 2-Hexanol - Medium: urine - Sampling time: at the end of the shift (for all results that are expressed as Creatinine, Creatinine concentration less than 0.5 g/L and greater than 3.0 g/L should not be considered) 5.3 mg/g creatinine Parameter: 2,5-Hexanedione - Medium: urine - Sampling time: at the end of the shift (for all results that are expressed as Creatinine, Creatinine concentration less than 0.5 g/L and greater than 3.0 g/L should not be considered)
Cyprus	OEL TWA (mg/m ³)	72 mg/m ³
Cyprus	OEL TWA (ppm)	20 ppm
Czech Republic	Expoziční limity (PEL) (mg/m ³)	70 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	72 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	20 ppm
Estonia	OEL TWA (mg/m ³)	72 mg/m ³
Estonia	OEL TWA (ppm)	20 ppm
Finland	HTP-arvo (8h) (mg/m ³)	72 mg/m ³
Finland	HTP-arvo (8h) (ppm)	20 ppm
France	VME (mg/m ³)	72 mg/m ³ (restrictive limit)
France	VME (ppm)	20 ppm (restrictive limit)
France	France - BLV	5 mg/g creatinine Parameter: 2,5-Hexanedione - Medium: urine - Sampling time: end of shift (Non-specific (observed after the exposure to other substances))
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	180 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	50 ppm
Germany	TRGS 903 (BGW)	5 mg/l Parameter: 2,5-Hexanedione plus 4,5-Dihydroxy-2-hexanone - Medium: urine - Sampling time: end of shift (after hydrolysis)
Gibraltar	Eight hours mg/m ³	72 mg/m ³
Gibraltar	Eight hours ppm	20 ppm
Greece	OEL TWA (mg/m ³)	72 mg/m ³
Greece	OEL TWA (ppm)	20 ppm
Hungary	AK-érték	72 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	72 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (mg/m ³)	216 mg/m ³ (calculated)

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Hexane (110-54-3)		
Ireland	OEL (15 min ref) (ppm)	60 ppm (calculated)
Italy	OEL TWA (mg/m ³)	72 mg/m ³
Italy	OEL TWA (ppm)	20 ppm
Latvia	OEL TWA (mg/m ³)	72 mg/m ³
Latvia	OEL TWA (ppm)	20 ppm
Lithuania	IPRV (mg/m ³)	72 mg/m ³
Lithuania	IPRV (ppm)	20 ppm
Luxembourg	OEL TWA (mg/m ³)	72 mg/m ³
Luxembourg	OEL TWA (ppm)	20 ppm
Malta	OEL TWA (mg/m ³)	72 mg/m ³
Malta	OEL TWA (ppm)	20 ppm
Netherlands	Grenswaarde TGG 8H (mg/m ³)	72 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	144 mg/m ³
Poland	NDS (mg/m ³)	72 mg/m ³
Portugal	OEL TWA (mg/m ³)	72 mg/m ³ (indicative limit value)
Portugal	OEL TWA (ppm)	20 ppm (indicative limit value)
Romania	OEL TWA (mg/m ³)	72 mg/m ³
Romania	OEL TWA (ppm)	20 ppm
Romania	Romania - BLV	5 mg/g creatinine Parameter: 2,5-Hexanedion - Medium: urine - Sampling time: end of shift
Slovakia	Slovakia - BLV	5 mg/l Parameter: 2,5-Hexanedione - Medium: urine - Sampling time: end of exposure or work shift 5 mg/l Parameter: 4,5-Dihydroxy-2-hexanone - Medium: urine - Sampling time: end of exposure or work shift
Slovenia	OEL TWA (mg/m ³)	72 mg/m ³
Slovenia	OEL TWA (ppm)	20 ppm
Spain	VLA-ED (mg/m ³)	72 mg/m ³ (indicative limit value)
Spain	VLA-ED (ppm)	20 ppm (indicative limit value)
Spain		0.2 mg/l Parameter: 2,5-Hexanedione - Medium: urine - Sampling time: end of workweek (without hydrolysis)
Sweden	nivågränsvärde (NVG) (mg/m ³)	90 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	25 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	180 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	50 ppm
United Kingdom	WEL TWA (mg/m ³)	72 mg/m ³
United Kingdom	WEL TWA (ppm)	20 ppm
United Kingdom	WEL STEL (mg/m ³)	216 mg/m ³ (calculated)
United Kingdom	WEL STEL (ppm)	60 ppm (calculated)
Russian Federation	OEL TWA (mg/m ³)	300 mg/m ³ (vapor)
Norway	Grenseverdier (AN) (mg/m ³)	72 mg/m ³
Norway	Grenseverdier (AN) (ppm)	20 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	108 mg/m ³ (value calculated)
Norway	Grenseverdier (Korttidsverdi) (ppm)	30 ppm (value calculated)
Switzerland	MAK (mg/m ³)	180 mg/m ³
Switzerland	MAK (ppm)	50 ppm
Switzerland	KZGW (mg/m ³)	1440 mg/m ³
Switzerland	KZGW (ppm)	400 ppm
Switzerland	Switzerland - BLV	5 mg/l Parameter: 2,5-Hexanedione plus 4,5-Dihydroxy-2-hexanone - Medium: urine - Sampling time: end of shift
Turkey	OEL TWA (mg/m ³)	72 mg/m ³
Turkey	OEL TWA (ppm)	20 ppm
Australia	TWA (mg/m ³)	72 mg/m ³

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Hexane (110-54-3)		
Australia	TWA (ppm)	20 ppm
Canada (Quebec)	VEMP (mg/m ³)	176 mg/m ³
Canada (Quebec)	VEMP (ppm)	50 ppm
USA - ACGIH	ACGIH TWA (ppm)	50 ppm
USA - ACGIH	Biological Exposure Indices (BEI)	0.4 mg/l Parameter: 2,5-Hexanedione without hydrolysis - Medium: urine - Sampling time: end of shift at end of workweek
USA - IDLH	US IDLH (ppm)	1100 ppm (10% LEL)
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	180 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (ppm)	50 ppm
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	1800 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	500 ppm
2,4-Dimethylpentane (108-08-7)		
Austria	MAK (mg/m ³)	2000 mg/m ³
Austria	MAK (ppm)	500 ppm
Austria	MAK Short time value (mg/m ³)	8000 mg/m ³
Austria	MAK Short time value (ppm)	2000 ppm
Finland	HTP-arvo (8h) (mg/m ³)	1200 mg/m ³
Finland	HTP-arvo (8h) (ppm)	300 ppm
Finland	HTP-arvo (15 min)	2100 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	500 ppm
Portugal	OEL TWA (ppm)	400 ppm
Portugal	OEL STEL (ppm)	500 ppm
USA - ACGIH	ACGIH TWA (ppm)	400 ppm
USA - ACGIH	ACGIH STEL (ppm)	500 ppm
n-Heptane (142-82-5)		
EU	IOELV TWA (mg/m ³)	2085 mg/m ³
EU	IOELV TWA (ppm)	500 ppm
Austria	MAK (mg/m ³)	2000 mg/m ³ (all isomers)
Austria	MAK (ppm)	500 ppm (all isomers)
Austria	MAK Short time value (mg/m ³)	8000 mg/m ³ (all isomers)
Austria	MAK Short time value (ppm)	2000 ppm (all isomers)
Belgium	Limit value (mg/m ³)	1664 mg/m ³
Belgium	Limit value (ppm)	400 ppm
Belgium	Short time value (mg/m ³)	2085 mg/m ³
Belgium	Short time value (ppm)	500 ppm
Bulgaria	OEL TWA (mg/m ³)	1600 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	2085 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	500 ppm
Cyprus	OEL TWA (mg/m ³)	2085 mg/m ³
Cyprus	OEL TWA (ppm)	500 ppm
Czech Republic	Expoziční limity (PEL) (mg/m ³)	1000 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	820 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	200 ppm
Estonia	OEL TWA (mg/m ³)	2085 mg/m ³
Estonia	OEL TWA (ppm)	500 ppm
Finland	HTP-arvo (8h) (mg/m ³)	1200 mg/m ³
Finland	HTP-arvo (8h) (ppm)	300 ppm
Finland	HTP-arvo (15 min)	2100 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	500 ppm
France	VME (mg/m ³)	1668 mg/m ³ (restrictive limit)
France	VME (ppm)	400 ppm (restrictive limit)
France	VLE (mg/m ³)	2085 mg/m ³ (restrictive limit)
France	VLE (ppm)	500 ppm (restrictive limit)

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n-Heptane (142-82-5)		
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	2100 mg/m ³ (all isomers)
Germany	TRGS 900 Occupational exposure limit value (ppm)	500 ppm (all isomers)
Gibraltar	Eight hours mg/m ³	2085 mg/m ³
Gibraltar	Eight hours ppm	500 ppm
Greece	OEL TWA (mg/m ³)	2000 mg/m ³
Greece	OEL TWA (ppm)	500 ppm
Greece	OEL STEL (mg/m ³)	2000 mg/m ³
Greece	OEL STEL (ppm)	500 ppm
Hungary	AK-érték	2000 mg/m ³
Hungary	CK-érték	8000 mg/m ³ (Substances with European indicative limits (96/94/EC, 2000/39/EC, 2006/15/EC, 2009/161/EU), which currently has no peak limit concentration. In these cases, Annex 3.1. should be used exercised)
Ireland	OEL (8 hours ref) (mg/m ³)	2085 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	500 ppm
Ireland	OEL (15 min ref) (mg/m ³)	6255 mg/m ³ (calculated)
Ireland	OEL (15 min ref) (ppm)	1500 ppm (calculated)
Italy	OEL TWA (mg/m ³)	2085 mg/m ³
Italy	OEL TWA (ppm)	500 ppm
Latvia	OEL TWA (mg/m ³)	350 mg/m ³
Latvia	OEL TWA (ppm)	85 ppm
Lithuania	IPRV (mg/m ³)	2085 mg/m ³
Lithuania	IPRV (ppm)	500 ppm
Lithuania	TPRV (mg/m ³)	3128 mg/m ³
Lithuania	TPRV (ppm)	750 ppm
Luxembourg	OEL TWA (mg/m ³)	2085 mg/m ³
Luxembourg	OEL TWA (ppm)	500 ppm
Malta	OEL TWA (mg/m ³)	2085 mg/m ³
Malta	OEL TWA (ppm)	500 ppm
Netherlands	Grenswaarde TGG 8H (mg/m ³)	1200 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	1600 mg/m ³
Poland	NDS (mg/m ³)	1200 mg/m ³
Poland	NDSch (mg/m ³)	2000 mg/m ³
Portugal	OEL TWA (mg/m ³)	2085 mg/m ³ (indicative limit value)
Portugal	OEL TWA (ppm)	500 ppm (indicative limit value)
Portugal	OEL STEL (ppm)	500 ppm
Romania	OEL TWA (mg/m ³)	2085 mg/m ³
Romania	OEL TWA (ppm)	500 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	2085 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	500 ppm
Slovenia	OEL TWA (mg/m ³)	2085 mg/m ³
Slovenia	OEL TWA (ppm)	500 ppm
Spain	VLA-ED (mg/m ³)	2085 mg/m ³ (indicative limit value)
Spain	VLA-ED (ppm)	500 ppm (indicative limit value)
Sweden	nivågränsvärde (NVG) (mg/m ³)	800 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	200 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	1200 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	300 ppm
United Kingdom	WEL TWA (mg/m ³)	2085 mg/m ³
United Kingdom	WEL TWA (ppm)	500 ppm
United Kingdom	WEL STEL (mg/m ³)	6255 mg/m ³ (calculated)
United Kingdom	WEL STEL (ppm)	1500 ppm (calculated)

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n-Heptane (142-82-5)		
Norway	Grenseverdier (AN) (mg/m ³)	800 mg/m ³
Norway	Grenseverdier (AN) (ppm)	200 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	1000 mg/m ³ (value calculated)
Norway	Grenseverdier (Korttidsverdi) (ppm)	250 ppm (value calculated)
Switzerland	MAK (mg/m ³)	1600 mg/m ³
Switzerland	MAK (ppm)	400 ppm
Switzerland	KZGW (mg/m ³)	1600 mg/m ³
Switzerland	KZGW (ppm)	400 ppm
Turkey	OEL TWA (mg/m ³)	2085 mg/m ³
Turkey	OEL TWA (ppm)	500 ppm
Australia	TWA (mg/m ³)	1640 mg/m ³
Australia	TWA (ppm)	400 ppm
Australia	STEL (mg/m ³)	2050 mg/m ³
Australia	STEL (ppm)	500 ppm
Canada (Quebec)	VECD (mg/m ³)	2050 mg/m ³
Canada (Quebec)	VECD (ppm)	500 ppm
Canada (Quebec)	VEMP (mg/m ³)	1640 mg/m ³
Canada (Quebec)	VEMP (ppm)	400 ppm
USA - ACGIH	ACGIH TWA (ppm)	400 ppm
USA - ACGIH	ACGIH STEL (ppm)	500 ppm
USA - IDLH	US IDLH (ppm)	750 ppm
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	350 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (ppm)	85 ppm
USA - NIOSH	NIOSH REL (ceiling) (mg/m ³)	1800 mg/m ³
USA - NIOSH	NIOSH REL (ceiling) (ppm)	440 ppm
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	2000 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	500 ppm
Methylcyclopentane (96-37-7)		
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	1800 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	500 ppm
Pentane, 2,2,3-trimethyl- (564-02-3)		
Austria	MAK (mg/m ³)	1400 mg/m ³
Austria	MAK (ppm)	300 ppm
Austria	MAK Short time value (mg/m ³)	5600 mg/m ³
Austria	MAK Short time value (ppm)	1200 ppm
Finland	HTP-arvo (8h) (mg/m ³)	1400 mg/m ³
Finland	HTP-arvo (8h) (ppm)	300 ppm
Finland	HTP-arvo (15 min)	1800 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	380 ppm
Methylcyclohexane (108-87-2)		
Austria	MAK (mg/m ³)	1600 mg/m ³
Austria	MAK (ppm)	400 ppm
Austria	MAK Short time value (mg/m ³)	6400 mg/m ³
Austria	MAK Short time value (ppm)	1600 ppm
Belgium	Limit value (mg/m ³)	1633 mg/m ³
Belgium	Limit value (ppm)	400 ppm
Bulgaria	OEL TWA (mg/m ³)	500 mg/m ³
Czech Republic	Expoziční limity (PEL) (mg/m ³)	1500 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	805 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	200 ppm
Estonia	OEL TWA (mg/m ³)	1600 mg/m ³
Estonia	OEL TWA (ppm)	400 ppm
Finland	HTP-arvo (8h) (mg/m ³)	1600 mg/m ³

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Methylcyclohexane (108-87-2)		
Finland	HTP-arvo (8h) (ppm)	400 ppm
Finland	HTP-arvo (15 min)	2000 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	500 ppm
France	VME (mg/m ³)	1600 mg/m ³
France	VME (ppm)	400 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	810 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	200 ppm
Greece	OEL TWA (mg/m ³)	2000 mg/m ³
Greece	OEL TWA (ppm)	500 ppm
Greece	OEL STEL (mg/m ³)	2000 mg/m ³
Greece	OEL STEL (ppm)	500 ppm
Ireland	OEL (8 hours ref) (mg/m ³)	1600 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	400 ppm
Ireland	OEL (15 min ref) (mg/m ³)	4800 mg/m ³ (calculated)
Ireland	OEL (15 min ref) (ppm)	1200 ppm (calculated)
Lithuania	IPRV (mg/m ³)	50 mg/m ³
Poland	NDS (mg/m ³)	1600 mg/m ³
Poland	NDSch (mg/m ³)	3000 mg/m ³
Portugal	OEL TWA (ppm)	400 ppm
Romania	OEL TWA (mg/m ³)	1200 mg/m ³
Romania	OEL TWA (ppm)	300 ppm
Romania	OEL STEL (mg/m ³)	1500 mg/m ³
Romania	OEL STEL (ppm)	375 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	810 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	200 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	1620 mg/m ³
Slovenia	OEL TWA (mg/m ³)	2000 mg/m ³
Slovenia	OEL TWA (ppm)	500 ppm
Slovenia	OEL STEL (mg/m ³)	8000 mg/m ³
Slovenia	OEL STEL (ppm)	2000 ppm
Spain	VLA-ED (mg/m ³)	1630 mg/m ³
Spain	VLA-ED (ppm)	400 ppm
Norway	Grenseverdier (AN) (mg/m ³)	800 mg/m ³
Norway	Grenseverdier (AN) (ppm)	200 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	1000 mg/m ³ (value calculated)
Norway	Grenseverdier (Korttidsverdi) (ppm)	250 ppm (value calculated)
Switzerland	MAK (mg/m ³)	1600 mg/m ³
Switzerland	MAK (ppm)	400 ppm
Switzerland	KZGW (mg/m ³)	3200 mg/m ³
Switzerland	KZGW (ppm)	800 ppm
Australia	TWA (mg/m ³)	1610 mg/m ³
Australia	TWA (ppm)	400 ppm
Canada (Quebec)	VEMP (mg/m ³)	1610 mg/m ³
Canada (Quebec)	VEMP (ppm)	400 ppm
USA - ACGIH	ACGIH TWA (ppm)	400 ppm
USA - IDLH	US IDLH (ppm)	1200 ppm (10% LEL)
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	1600 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (ppm)	400 ppm
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	2000 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	500 ppm
2,3-Dimethylhexane (584-94-1)		
Austria	MAK (mg/m ³)	1400 mg/m ³

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2,3-Dimethylhexane (584-94-1)		
Austria	MAK (ppm)	300 ppm
Austria	MAK Short time value (mg/m ³)	5600 mg/m ³
Austria	MAK Short time value (ppm)	1200 ppm
Finland	HTP-arvo (8h) (mg/m ³)	1400 mg/m ³
Finland	HTP-arvo (8h) (ppm)	300 ppm
Finland	HTP-arvo (15 min)	1800 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	380 ppm

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Odour	: Special oil flavor
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 60 - 107 °C
Flash point	: -19.8°C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: 14 kPa (25°C)
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Hexane (110-54-3)	
LD50 oral rat	25 g/kg
LD50 dermal rabbit	3000 mg/kg
LC50 inhalation rat (ppm)	48000 ppm/4h

n-Heptane (142-82-5)	
LD50 dermal rabbit	3000 mg/kg
LC50 inhalation rat (mg/l)	103 g/m ³ (Exposure time: 4 h)

Methylcyclohexane (108-87-2)	
LD50 oral rat	> 3200 mg/kg
LD50 dermal rabbit	> 86700 mg/kg

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility.

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Hexane (110-54-3)	
LC50 fish 1	2.1 - 2.98 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

n-Heptane (142-82-5)	
LC50 fish 1	375 mg/l (Exposure time: 96 h - Species: Cichlid fish)

12.2. Persistence and degradability

No additional information available

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12.3. Bioaccumulative potential

n-Heptane (142-82-5)

Log Pow	4.66
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1268	1268	1268	1268	1268
14.2. UN proper shipping name				
PETROLEUM PRODUCTS, N.O.S.	PETROLEUM PRODUCTS, N.O.S.	Petroleum products, n.o.s.	PETROLEUM PRODUCTS, N.O.S.	PETROLEUM PRODUCTS, N.O.S.
Transport document description				
UN 1268 PETROLEUM PRODUCTS, N.O.S., 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1268 PETROLEUM PRODUCTS, N.O.S., 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1268 Petroleum products, n.o.s., 3, II, ENVIRONMENTALLY HAZARDOUS	UN 1268 PETROLEUM PRODUCTS, N.O.S., 3, II, ENVIRONMENTALLY HAZARDOUS	UN 1268 PETROLEUM PRODUCTS, N.O.S., 3, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)				
3	3	3	3	3
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : F1
Special provisions (ADR) : 640D, 664
Limited quantities (ADR) : 11
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001, IBC02, R001
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T7
Portable tank and bulk container special provisions (ADR) : TP1, TP8, TP28
Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 2

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Special provisions for carriage - Operation (ADR) : S2, S20

Hazard identification number (Kemler No.) : 33

Orange plates :



Tunnel restriction code (ADR) : D/E

EAC code : 3YE

- Transport by sea

Special provisions (IMDG) : 363

Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T7

Tank special provisions (IMDG) : TP1, TP8, TP28

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-E

Stowage category (IMDG) : B

Properties and observations (IMDG) : Immiscible with water.

- Air transport

PCA Excepted quantities (IATA) : E2

PCA Limited quantities (IATA) : Y341

PCA limited quantity max net quantity (IATA) : 1L

PCA packing instructions (IATA) : 353

PCA max net quantity (IATA) : 5L

CAO packing instructions (IATA) : 364

CAO max net quantity (IATA) : 60L

Special provisions (IATA) : A3

ERG code (IATA) : 3H

- Inland waterway transport

Classification code (ADN) : F1

Special provisions (ADN) : 640D

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E2

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 1

- Rail transport

Classification code (RID) : F1

Special provisions (RID) : 640D

Limited quantities (RID) : 1L

Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02, R001

Mixed packing provisions (RID) : MP19

Portable tank and bulk container instructions (RID) : T7

Portable tank and bulk container special provisions (RID) : TP1, TP8, TP28

Tank codes for RID tanks (RID) : LGBF

Transport category (RID) : 2

Colis express (express parcels) (RID) : CE7

Hazard identification number (RID) : 33

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14.7. Transport in bulk according to Annex II of Marpol 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 REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : Hexane is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

No information available.

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

Data sources : LOLI. ECHA reference.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H- and EUH-statements:

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
Flam. Liq. 2	Flammable liquids, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis

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H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
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.

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