

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

1.1. Product identifier

Mixture identification:

Trade name: ULTRACOAT HT 2K 30-60/ B Trade code: 9074408 UFI: G2A0-508Y-G00P-216S

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

Recommended use: Epoxy paint

Uses advised against: Data not available.

1.3. Details of the supplier of the safety data sheet

Company: MAPEI S.p.A. - Via Cafiero, 22 - 20158 Milano Tel. +(39)02376731 (office hours) - Fax: +39-02-37673.214 - www.mapei.it Responsable: sicurezza@mapei.it

1.4. Emergency telephone number

Centro antiveleni, Azienda ospedaliera "Antonio Cardarelli", III Servizio di anestesia e rianimazione, via Antonio Cardarelli 9, Napoli - Tel. 081 5453333

Centro antiveleni, Azienda ospedaliera universitaria Careggi, U.O. Tossicologia medica, via Largo Brambilla 3, Firenze - Tel. 055 7947819 Centro antiveleni, Centro nazionale d'informazione tossicologica, IRCCS Fondazione Salvatore Maugeri Clinica del lavoro e della riabilitazione, via Salvatore Maugeri 10, Pavia - Tel. 0382 24444

Centro antiveleni, Azienda ospedaliera Niguarda Ca' Granda, piazza Ospedale Maggiore 3, Milano - Tel. 02 66101029

Centro antiveleni, Azienda ospedaliera "Papa Giovanni XXIII", Tossicologia clinica, Dipartimento di farmacia clinica e farmacologia, piazza OMS 1, Bergamo - Tel. 800 883300

Centro antiveleni Policlinico "Umberto I", PRGM tossicologia d'urgenza, viale del Policlinico 155, Roma - Tel. 06 49978000

Centro antiveleni del Policlinico "Agostino Gemelli", Servizio di tossicologia clinica, largo Agostino Gemelli 8, Roma - Tel. 06 3054343 Centro antiveleni, Azienda ospedaliera universitaria Riuniti, viale Luigi Pinto 1, Foggia - Tel. 800 183459

Centro antiveleni, Ospedale pediatrico Bambino Gesù, Dipartimento emergenza e accettazione DEA, piazza Sant'Onofrio 4, Roma - Tel. 06 68593726

Centro antiveleni dell'Azienda ospedaliera universitaria integrata (AOUI) di Verona sede di Borgo Trento, piazzale Aristide Stefani, 1 - 37126 Verona - Tel. 800 011858

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Acute Tox. 4	Harmful if inhaled.
	numur n nnucu.

Skin Irrit. 2 Causes skin irritation.

Eye Dam. 1 Causes serious eye damage.

Skin Sens. 1B May cause an allergic skin reaction.

STOT SE 3 May cause respiratory irritation.

2 The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Pictograms and Signal Words



Hazard statements

H315Causes skin irritation.H317May cause an allergic skin reaction.

H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

Precautionary statements

P261	Avoid breathing mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/clothing and eye/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER.
P312	Call a POISON CENTER if you feel unwell.
5000 · 5040	

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Special Provisions:

EUH208	Contains hexamethylene-di-isocyanate. May produce an allergic reaction.
EUH208	Contains 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate. May produce an allergic reaction.
EUH204	Contains isocyanates. May produce an allergic reaction.

Contains

Hexamethylene diisocyanate, oligomers

3-Isocyanatomethyl-3,5,5trimethylcyclohexyl isocyanate, oligomers

cyclohexyldimethylamine Phosphoric acid, (ethoxylated tridecyl alcohol) esters

Special provisions according to Annex XVII of REACH and subsequent amendments:

None. 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Not Relevant

3.2. Mixtures

Mixture identification: ULTRACOAT HT 2K 30-60/ B

Hazardous components within the meaning of the CLP regulation and related classification:				
Qty	Name	Ident. Numb	Classification	Registration Number
≥50 - <75 %	Hexamethylene diisocyanate, oligomers	CAS:28182-81 EC:500-060-2	-2 Acute Tox. 4, H332; STOT SE 3, H335; Skin Sens. 1, H317	01-2119970543-34-XXXX
≥25 - <50 %	3-Isocyanatomethyl-3,5,5- trimethylcyclohexyl isocyanat oligomers		i-0 Skin Sens. 1B, H317; STOT SE 3, H335	01-2119488734-24-0002
≥5 - <10 %	Phosphoric acid, (ethoxylated tridecyl alcohol) esters	CAS:9046-01- EC:618-558-4	, , ,	
≥1 - <2.5 %	cyclohexyldimethylamine	CAS:98-94-2 EC:202-715-5	Flam. Liq. 3, H226; Acute Tox. 3, H331; Acute Tox. 3, H311; Acute Tox. 3, H301; Skin Corr. 1B, H314 Aquatic Chronic 3, H412	
≥0.25 - <0.49 %	hexamethylene-di-isocyanate	e CAS:822-06-0 EC:212-485-8 Index:615-01 00-1	H319 STOT SE 3, H335 Skin Irrit.	
			Specific Concentration Limits:	
Print date	09/02/2023	Production Name	ULTRACOAT HT 2K 30-60/ B	Page n. 2 o

 $0,5\% \le C < 100\%$: Resp. Sens. 1 H334 $0,5\% \le C < 100\%$: Skin Sens. 1 H317

≥0.25 - <0.49 %	3-isocyanatomethyl-3,5,5- trimethylcyclohexyl isocyanate	EC:223-861-6	Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Aquatic Chronic 2, H411 Acute Tox. 1, H330 Resp. Sens. 1, H334 Skin Sens. 1, H317	01-2119490408-31-XXXX
			Specific Concentration Limits: C ≥ 0,5%: Skin Sens. 1 H317 C ≥ 0,5%: Resp. Sens. 1 H334	

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

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

Eye irritation Eye damages Skin Irritation

Erythema

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Treatment:

(see paragraph 4.1)

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

Use suitable breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation. Use appropriate respiratory protection.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Limit leakages with earth or sand.

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand Retain contaminated washing water and dispose it.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
cyclohexyldimethylamine	National	CZECH REPUBLIC	Long Term: 5 mg/m3
CAS: 98-94-2			
	National	CZECH REPUBLIC	Ceiling - Short Term: 10 mg/m3
hexamethylene-di-isocyanate CAS: 822-06-0	ACGIH		Long Term: 0,005 ppm URT irr, resp sens
	National	SWEDEN	Ceiling - Long Term: 0,02 mg/m3 - 0,002 ppm; Short Term: 0,03 mg/m3 - 0,005 ppm SWEDEN, Ceiling limit value
	National	NORWAY	Long Term: 0,035 mg/m3 - 0,005 ppm NORWAY, A 4
	National	NORWAY	Long Term: 0,035 mg/m3 - 0,005 ppm; Short Term: 0,07 mg/m3 - 0,01 ppm
	DFG	GERMANY	Ceiling - Short Term: 0,035 mg/m3 - 0,005 ppm
	ACGIH		Long Term: 0,005 ppm respiratory tract irritation
	National	SWEDEN	Long Term: 0,02 mg/m3 - 0,002 ppm
	National	FRANCE	Long Term: 0,075 mg/m3 - 0,01 ppm; Short Term: 0,15 mg/m3 - 0,02 ppm
	National	SPAIN	Long Term: 0,035 mg/m3 - 0,005 ppm
	National	GREECE	Long Term: 0,075 mg/m3 - 0,01 ppm; Short Term: 0,15 mg/m3 - 0,02 ppm
	National	DENMARK	Long Term: 0,035 mg/m3 - 0,005 ppm
	National	GERMANY	Long Term: 0,035 mg/m3 - 0,005 ppm
	National	PORTUGAL	Long Term: 0,005 ppm
	National	NORWAY	Long Term: 0,035 mg/m3 - 0,005 ppm; Short Term: 0,01 ppm

	National	BELGIUM	Long Term: 0,034 mg/m3 - 0,005 ppm
	NDS	POLAND	Long Term: 0,04 mg/m3
	NDSCh	POLAND	Short Term: 0,08 mg/m3
	National	CZECH REPUBLIC	Long Term: 0,035 mg/m3
	National	HUNGARY	Long Term: 0,035 mg/m3; Short Term: 0,035 mg/m3
	Malaysi a OEL	MALAYSIA	Long Term: 0,034 mg/m3 - 0,005 ppm
	National	ESTONIA	Long Term: 0,03 mg/m3 - 0,005 ppm; Short Term: 0,07 mg/m3 - 0,01 ppm
	National	LATVIA	Long Term: 0,05 mg/m3
	National	CZECH REPUBLIC	Ceiling - Short Term: 0,07 mg/m3
	National	SLOVAKIA	Long Term: 0,035 mg/m3 - 0,005 ppm
	National	SLOVENIA	Long Term: 0,035 mg/m3 - 0,005 ppm; Short Term: 0,035 mg/m3 - 0,005 ppm
	National	BULGARIA	Long Term: 0,1 mg/m3
	National	ROMANIA	Long Term: 0,05 mg/m3 - 0,007 ppm; Short Term: 1 mg/m3 - 0,14 ppm
	National	LITHUANIA	Long Term: 0,03 mg/m3 - 0,005 ppm
	National	LITHUANIA	Ceiling - Short Term: 0,07 mg/m3 - 0,01 ppm
3-isocyanatomethyl-3,5,5- trimethylcyclohexyl isocyanate CAS: 4098-71-9	DFG	GERMANY	Ceiling - Short Term: 0,046 mg/m3 - 0,005 ppm
	ACCTU		L T 0.005
	ACGIH		Long Term: 0,005 ppm respiratory sensitization
		FRANCE	
			respiratory sensitization
	National National		respiratory sensitization Long Term: 0,09 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm
	National National National	SPAIN	respiratory sensitization Long Term: 0,09 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,046 mg/m3 - 0,005 ppm
	National National National National	SPAIN GERMANY	respiratory sensitization Long Term: 0,09 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,046 mg/m3 - 0,005 ppm Long Term: 0,046 mg/m3 - 0,005 ppm
	National National National National	SPAIN GERMANY PORTUGAL	respiratory sensitization Long Term: 0,09 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,046 mg/m3 - 0,005 ppm Long Term: 0,046 mg/m3 - 0,005 ppm Long Term: 0,005 ppm
	National National National National National NDS	SPAIN GERMANY PORTUGAL BELGIUM	respiratory sensitization Long Term: 0,09 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,046 mg/m3 - 0,005 ppm Long Term: 0,046 mg/m3 - 0,005 ppm Long Term: 0,005 ppm Long Term: 0,046 mg/m3 - 0,005 ppm
	National National National National NDS National	SPAIN GERMANY PORTUGAL BELGIUM POLAND	respiratory sensitization Long Term: 0,09 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,046 mg/m3 - 0,005 ppm
	National National National National NDS National National	SPAIN GERMANY PORTUGAL BELGIUM POLAND NORWAY	respiratory sensitization Long Term: 0,09 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,046 mg/m3 - 0,005 ppm Long Term: 0,045 mg/m3 - 0,005 ppm; Short Term: 0,01 ppm
	National National National National NDS National National National	SPAIN GERMANY PORTUGAL BELGIUM POLAND NORWAY GREECE	respiratory sensitization Long Term: 0,09 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,046 mg/m3 - 0,005 ppm Long Term: 0,046 mg/m3 Long Term: 0,045 mg/m3 - 0,005 ppm; Short Term: 0,01 ppm Long Term: 0,09 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm
	National National National National NDS National National National National	SPAIN GERMANY PORTUGAL BELGIUM POLAND NORWAY GREECE SWEDEN	respiratory sensitization Long Term: 0,09 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,046 mg/m3 - 0,005 ppm; Short Term: 0,01 ppm Long Term: 0,09 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,018 mg/m3 - 0,002 ppm
	National National National National NDS National National National National National Malaysi a OEL	SPAIN GERMANY PORTUGAL BELGIUM POLAND NORWAY GREECE SWEDEN DENMARK	respiratory sensitization Long Term: 0,09 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,046 mg/m3 - 0,005 ppm; Short Term: 0,01 ppm Long Term: 0,045 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,018 mg/m3 - 0,005 ppm Long Term: 0,045 mg/m3 - 0,005 ppm
	National National National National National National National National Malaysi a OEL National	SPAIN GERMANY PORTUGAL BELGIUM POLAND NORWAY GREECE SWEDEN DENMARK MALAYSIA	respiratory sensitization Long Term: 0,09 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,046 mg/m3 - 0,005 ppm; Short Term: 0,01 ppm Long Term: 0,09 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,018 mg/m3 - 0,002 ppm Long Term: 0,045 mg/m3 - 0,005 ppm Long Term: 0,045 mg/m3 - 0,005 ppm
	National National National National NDS National National National Malaysi a OEL National National	SPAIN GERMANY PORTUGAL BELGIUM POLAND NORWAY GREECE SWEDEN DENMARK MALAYSIA	respiratory sensitization Long Term: 0,09 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,046 mg/m3 - 0,005 ppm; Short Term: 0,01 ppm Long Term: 0,045 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,018 mg/m3 - 0,005 ppm Long Term: 0,045 mg/m3 - 0,005 ppm Long Term: 0,045 mg/m3 - 0,005 ppm
	National National National National NDS National National National Malaysi a OEL National National National	SPAIN GERMANY PORTUGAL BELGIUM POLAND NORWAY GREECE SWEDEN DENMARK MALAYSIA ESTONIA SLOVENIA	respiratory sensitization Long Term: 0,09 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,046 mg/m3 - 0,005 ppm; Short Term: 0,01 ppm Long Term: 0,09 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,018 mg/m3 - 0,002 ppm Long Term: 0,045 mg/m3 - 0,005 ppm; Short Term: 0,09 mg/m3 - 0,01 ppm Long Term: 0,045 mg/m3 - 0,005 ppm; Short Term: 0,09 mg/m3 - 0,01 ppm Long Term: 0,045 mg/m3 - 0,005 ppm; Short Term: 0,09 mg/m3 - 0,01 ppm Long Term: 0,046 mg/m3 - 0,005 ppm; Short Term: 0,09 mg/m3 - 0,01 ppm Long Term: 0,046 mg/m3 - 0,005 ppm; Short Term: 0,046 mg/m3 - 0,005 ppm
	National National National National National National National Malaysi a OEL National National National National National	SPAIN GERMANY PORTUGAL BELGIUM POLAND NORWAY GREECE SWEDEN DENMARK MALAYSIA ESTONIA SLOVENIA BULGARIA	respiratory sensitization Long Term: 0,09 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,046 mg/m3 - 0,005 ppm Long Term: 0,046 mg/m3 - 0,005 ppm Long Term: 0,046 mg/m3 - 0,005 ppm Long Term: 0,044 mg/m3 Long Term: 0,045 mg/m3 - 0,005 ppm; Short Term: 0,01 ppm Long Term: 0,018 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,045 mg/m3 - 0,002 ppm Long Term: 0,045 mg/m3 - 0,005 ppm; Short Term: 0,09 mg/m3 - 0,01 ppm Long Term: 0,045 mg/m3 - 0,005 ppm; Short Term: 0,09 mg/m3 - 0,01 ppm Long Term: 0,046 mg/m3 - 0,005 ppm; Short Term: 0,09 mg/m3 - 0,01 ppm Long Term: 0,046 mg/m3 - 0,005 ppm; Short Term: 0,09 mg/m3 - 0,01 ppm Long Term: 0,046 mg/m3 - 0,005 ppm; Short Term: 0,046 mg/m3 - 0,005 ppm Long Term: 0,046 mg/m3 - 0,005 ppm; Short Term: 0,046 mg/m3 - 0,005 ppm Long Term: 0,046 mg/m3 - 0,005 ppm; Short Term: 0,046 mg/m3 - 0,005 ppm
	National National National National NDS National National National Malaysi a OEL National National National National National National	SPAIN GERMANY PORTUGAL BELGIUM POLAND NORWAY GREECE SWEDEN DENMARK MALAYSIA ESTONIA SLOVENIA BULGARIA LITHUANIA	respiratory sensitization Long Term: 0,09 mg/m3 - 0,01 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,046 mg/m3 - 0,005 ppm; Short Term: 0,01 ppm Long Term: 0,045 mg/m3 - 0,005 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,018 mg/m3 - 0,002 ppm Long Term: 0,045 mg/m3 - 0,005 ppm; Short Term: 0,18 mg/m3 - 0,02 ppm Long Term: 0,045 mg/m3 - 0,005 ppm; Short Term: 0,09 mg/m3 - 0,01 ppm Long Term: 0,045 mg/m3 - 0,005 ppm; Short Term: 0,09 mg/m3 - 0,01 ppm Long Term: 0,046 mg/m3 - 0,005 ppm; Short Term: 0,09 mg/m3 - 0,01 ppm Long Term: 0,046 mg/m3 - 0,005 ppm; Short Term: 0,046 mg/m3 - 0,005 ppm Long Term: 0,1 mg/m3 - 0,005 ppm; Short Term: 0,046 mg/m3 - 0,005 ppm Long Term: 0,1 mg/m3 Long Term: 0,05 mg/m3 - 0,005 ppm

SWITZERLAN Short Term: 0,02 mg/m3 CHE

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Short Term: 0,035 mg/m3 National FINLAND

Biological limit values

hexamethylene-diisocyanate CAS: 822-06-0

> Biological Indicator: 1,6-Hexamethylenediamine with hydrolysis; Sampling Period: End of turn Value: 15 MICROGGCREAT; Medium: Urine Remark: Not Specific

Predicted No Effect Concentration (PNEC) values

Hexamethylene Exposure Route: Fresh Water; PNEC Limit: 0,127 mg/l diisocyanate, oligomers CAS: 28182-81-2

	Exposure Route: Marine water; PNEC Limit: 0,0127 mg/l				
	Exposure Route: Soil; PNEC Limit: 53182 mg/kg				
	Exposure Route: Freshwater sediments; PNEC Limit: 266700 mg/kg				
	Exposure Route: Marine water sediments; PNEC Limit: 26670 mg/kg				
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 38,3 mg/l				
	Exposure Route: Intermittent release; PNEC Limit: 1,27 mg/l				
3-Isocyanatomethyl-3,5, 5-trimethylcyclohexyl isocyanate, oligomers	Exposure Route: Fresh Water; PNEC Limit: 0,0015 mg/l				
CAS: 53880-05-0					
	Exposure Route: Marine water; PNEC Limit: 0,00015 mg/l				
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l				
hexamethylene-di-	Exposure Route: Fresh Water; PNEC Limit: 0,077 mg/l				
isocyanate CAS: 822-06-0					
	Exposure Route: Marine water; PNEC Limit: 0,008 mg/l				
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 8,42 mg/l				
	Exposure Route: Freshwater sediments; PNEC Limit: 0,013 mg/kg				
	Exposure Route: Marine water; PNEC Limit: 0,001 mg/kg				
	Exposure Route: Soil; PNEC Limit: 0,003				
Derived No Effect Leve	l (DNEL) values				
Hexamethylene diisocyanate, oligomers CAS: 28182-81-2	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Industry: 1 mg/m3				
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Industry: 0,5 mg/m3				
3-Isocyanatomethyl-3,5, 5-trimethylcyclohexyl isocyanate, oligomers	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Industry: 0,58 mg/m3				
CAS: 53880-05-0					
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Industry: 0,29 mg/m3				
hexamethylene-di- isocyanate CAS: 822-06-0	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 0,035 mg/m3				
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Industry: 0,07 mg/m3				
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Industry: 0,035 mg/m3				
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Industry: 0,07 mg/m3				
8.2. Exposure controls Eye protection:					
Protection for skin:	safety goggles, don't use eye lens.				
Protection for hands:	t provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.				
	Is for safety gloves; EN ISO 374:				
Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min. Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.					
Nitrije rubber - NBR: thickness >=0,35mm; breakthrough time >=480min. Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.					
Fluorinated rubber - FKM: thickness $>=0,4$ mm; breakthrough time $>=480$ min.					
Neoprene gloves	are suggested (0,5 mm) not recommended gloves: not waterproof gloves				
Respiratory protection:					
	ive Equipment should comply with relevant CE standards (as EN ISO 374 for gloves and EN ISO 166 for goggles), ined and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user				
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Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to appropriate EN standards, like EN 136, 140, 143, 149, 14387 for information on selection and use of appropriate respiratory protection equipment. In case of insufficient ventilation use mask with ABEKP filters (EN 14387).

Use adequate protective respiratory equipment.

Hygienic and Technical measures

Not available

Appropriate engineering controls:

Not available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid Appearance: liquid Color: transparent Odour: Characteristic Odour threshold: Not available Melting point / freezing point: Not available Initial boiling point and boiling range: Not available Flammability: N.A. Upper/lower flammability or explosive limits: Not available Flash point: Not available Auto-ignition temperature: Not available Decomposition temperature: Not available pH: Not available Viscosity: Not available Kinematic viscosity: Not available Solubility in water: partly soluble Solubility in oil: Not available Partition coefficient (n-octanol/water): Not available Vapour pressure: Not available Relative density: 1.09 g/cm3 Vapour density: Not available

Particle characteristics:

Particle size: Not available

9.2. Other information

Miscibility: Not available Conductivity: Not available No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

Toxicological Information of the Preparation

b) skin corrosion/irritationc) serious eye damage/irritation

a) acute	toxicity
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The product is classified: Acute Tox. 4(H332) ATEmix - Inhalation (Vapours) : 16.2562 mg/l The product is classified: Skin Irrit. 2(H315) The product is classified: Eye Dam. 1(H318)

d) respiratory or e) germ cell mut		The product is classified: Skin Sens. 1B(H317) Not classified				
e) genn een ma	ugener,	Based on available data, the classification criteria are not met				
f) carcinogenicity	ý	Not classified				
, 5	,	Based on available data, the classification criteria are not met				
g) reproductive	toxicity	Not classified				
		Based on available data, the classification criteria are not met				
h) STOT-single e	exposure	The product is classified: STOT SE 3(H335)				
i) STOT-repeate	d exposure	Not classified				
		Based on available data, the classification criteria are not me	t			
j) aspiration haz	ard	Not classified				
		Based on available data, the classification criteria are not me	Based on available data, the classification criteria are not met			
Toxicological informati	on on main com	ponents of the mixture:				
Hexamethylene diisocyanate, oligomers	a) acute toxicity	LD50 Oral Rat > 2500 mg/kg	ratto femmina			
		LD50 Skin Rat > 2000 mg/kg				
		LD50 Skin Rabbit > 2000 mg/kg				
		LC50 Inhalation Mist Rat = $0,39$ mg/l 4h	ratto femmina			
		LC50 Inhalation Rat = 18500 mg/m3 1h				
3-Isocyanatomethyl-3,5, 5-trimethylcyclohexyl isocyanate, oligomers	a) acute toxicity	LC50 Inhalation Rat > 5 mg/l 4h				
		LD50 Oral Rat > 14000 mg/kg				
cyclohexyldimethylamine	a) acute toxicity	LC50 Inhalation Rat = 1889 mg/m3 2h				
		LD50 Oral Rat = 272 mg/kg				
hexamethylene-di- isocyanate	a) acute toxicity	LD50 Oral Rat = 746 mg/kg				
		LC50 Inhalation Vapour Rat = 0,124 mg/l 4h				
		LD50 Skin Rat > 7000 mg/kg				
3-isocyanatomethyl-3,5, 5-trimethylcyclohexyl isocyanate	a) acute toxicity	LD50 Skin Rabbit > 5000, mg/kg				
		LC50 Inhalation Rat = 0,135 mg/l 4h				
		LD50 Oral Rat = 4814, mg/kg				

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
Hexamethylene diisocyanate, oligomers	CAS: 28182-81- 2 - EINECS: 500-060-2	a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96

		a) Aquatic acute toxicity :	EC50 Daphnia > 100 mg/L 48
		a) Aquatic acute toxicity :	EC50 Algae > 1000 mg/L 72
		c) Bacteria toxicity : EC50	Bacteria = 3828 mg/L 3
3-Isocyanatomethyl-3,5,5- trimethylcyclohexyl isocyanate, oligomers	CAS: 53880-05- 0 - EINECS: 500-125-5	a) Aquatic acute toxicity :	LC50 Fish > 1,51 mg/L 96
		a) Aquatic acute toxicity :	EC50 Daphnia > 3,36 mg/L 48
		a) Aquatic acute toxicity :	EC50 Algae > 3,1 mg/L 72
		c) Bacteria toxicity : EC50	Bacteria > 10000 mg/L 3
Phosphoric acid, (ethoxylated tridecyl alcohol) esters	CAS: 9046-01-9 - EINECS: 618- 558-4	a) Aquatic acute toxicity :	EC50 Fish = 10 mg/L
cyclohexyldimethylamine	CAS: 98-94-2 - EINECS: 202- 715-5	a) Aquatic acute toxicity : 48h	EC50 Daphnia Daphnia magna Straus = 75 mg/L
		a) Aquatic acute toxicity :	EC50 Algae = 3,5 mg/L 72h
		a) Aquatic acute toxicity :	LC50 Fish = 28,1 mg/L 96h
hexamethylene-di-isocyanate	CAS: 822-06-0 - EINECS: 212- 485-8 - INDEX: 615-011-00-1	a) Aquatic acute toxicity :	EC50 Algae = 77,4 mg/L 72
		a) Aquatic acute toxicity :	LC50 Fish = 8,8 mg/L 96
		a) Aquatic acute toxicity : IUCLID	LC50 Fish Brachydanio rerio = 26,1 mg/L 96h
3-isocyanatomethyl-3,5,5- trimethylcyclohexyl isocyanate	CAS: 4098-71-9 - EINECS: 223- 861-6 - INDEX: 615-008-00-5	a) Aquatic acute toxicity :	EC50 Daphnia = 27 mg/L 48h
		a) Aquatic acute toxicity :	IC50 Fish = 4 mg/L 96h
		a) Aquatic acute toxicity :	NOEC Algae = 4,4 mg/L 72h
		a) Aquatic acute toxicity : mg/L 72h IUCLID	EC50 Algae Desmodesmus subspicatus = 118,7

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

Not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

A waste code (EWC) according to European List of Waste (LoW) cannot be specified, due to dependence on the usage. Contact and send to an authorized waste disposal service.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Hazardous waste: Yes

Print date

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number or ID number

Not Applicable

14.2. UN proper shipping name

Not Applicable

14.3. Transport hazard class(es)

Not Applicable

14.4. Packing group

Not Applicable

14.5. Environmental hazards

Not Applicable

14.6. Special precautions for user

Not Applicable

Road and Rail (ADR-RID):

Not Applicable

Air (IATA):

Not Applicable

Sea (IMDG):

Not Applicable

14.7. Maritime transport in bulk according to IMO instruments

Not Applicable

SECTION 15: Regulatory information

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

VOC (2004/42/EC) : 90 (A+B) g/l Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n. 1907/2006 (REACH) Regulation (EU) n. 2020/878 Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP) Regulation (EU) n. 487/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP 6 CLP) Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP) Regulation (EU) n. 2018/669 (ATP 11 CLP) Regulation (EU) n. 2019/521 (ATP 12 CLP) Regulation (EU) n. 2018/1480 (ATP 13 CLP) Regulation (EU) n. 2020/217 (ATP 14 CLP) Regulation (EU) n. 2020/1182 (ATP 15 CLP) Regulation (EU) n. 2021/643 (ATP 16 CLP) Regulation (EU) n. 2021/849 (ATP 17 CLP) Regulation (EU) n. 2022/692 (ATP 18 CLP)

None

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3

Restrictions related to the substances contained: 40, 74, 75

SVHC Substances:

SVHC substances not present in a concentration \geq 0.1% (w/w)

National regulations

Produktregister Danmark: 4303288

MAL-kode: 5-3 (1993), A+B (10:1): 1-3 (1993)

Lagerklasse (TRGS-510): 12 - Non-combustible liquids, that cannot be assigned to any of the aforementioned LGK

German Water Hazard Class.

Class 2: hazardous for water.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

ConcernH226Farmabble liquid and vapour.H301Toxic if swallowed.H302Harnful if swallowed.H314Causes severe skin burns and eye damage.H314Causes severe skin burns and eye damage.H315Causes sevine skin burns and eye damage.H316Causes serious eye damage.H317May cause an allergic skin reaction.H318Causes serious eye damage.H319Causes serious eye irritation.H330Fatal if inhaled.H331Causes serious eye irritation.H333Fatal if inhaled.H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.H335May cause respiratory irritation.H341Toxic to aquatic life with long lasting effects.H411Toxic to aquatic life with long lasting effects.H412Harnful to aquatic life with long lasting effects.L543Harnful to aquatic life with long lasting effects.H412Kaute Tox. 1Acute Tox.1L543Acute Tox.3Acute toxiclty (inhalation), Category 1L1/JInhalAcute Tox.3Acute toxiclty (inhalation), Category 3L1/JI/InhalAcute Tox.4Acute toxiclty (inhalation), Category 4L1/JI/InhalAcute Tox.4Acute toxiclty (inhalation), Category 4L1/JI/InhalAcute Tox.4Acute toxiclty (inhalation), Category 4L1/JI/InhalAcute Tox.4Skin corrosion, Category 18L2/JASkin Corr. 1BSkin corrosion, Category 18L3/JI/InhalSkin Corr. 1B	Code	Description				
H301Toxic if swallowed.H302Harmful if swallowed.H314Toxic in contact with skin.H314Causes severe skin burns and eye damage.H315Causes severe skin initiation.H317May cause an allergic skin reaction.H318Causes serious eye damage.H319Causes serious eye damage.H319Causes serious eye dimage.H319Causes serious eye dimage.H319Causes serious eye dimage.H330Fatal if inhaled.H331Toxic if inhaled.H332Harmful if inhaled.H333May cause respiratory irritation.H344May cause respiratory irritation.H345May cause respiratory irritation.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.H413Acute Tox. 1Acute toxichty (inhalation), Category 13.1/J/InhalAcute Tox. 3Acute toxichty (inhalation), Category 33.1/J/InhalAcute Tox. 3Acute toxichty (inhalation), Category 43.1/J/InhalAcute Tox. 4Acute toxichty (inhalation), Category 43.1/J/InhalAcute Tox. 4 </td <td></td> <td>•</td> <td></td>		•				
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4.1/C2 Aquatic Chronic 2 Chronic (long term) aquatic hazard, category 2	3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B			
	3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3			
4.1/C3 Aquatic Chronic 3 Chronic (long term) aquatic hazard, category 3	4.1/C2	•	Chronic (long term) aquatic hazard, category 2			
	4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3			

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008

[CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
3.1/4/Inhal	Calculation method
3.2/2	Calculation method
3.3/1	Calculation method
3.4.2/1B	Calculation method
3.8/3	Calculation method

If appropriate, specific provisions in relation to possible training for workers are mentioned in section 2. Any training related to safety in the workplace must in any case refer to a risk assessment that must be carried out by a company safety officer taking into account the specific operating and environmental conditions in which the products are used.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX'S DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

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

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low

N.A.: Not Applicable N/A: Not Applicable N/D: Not defined/ Not available NA: Not available NIOSH: National Institute for Occupational Safety and Health NOAEL: No Observed Adverse Effect Level OSHA: Occupational Safety and Health Administration. PBT: Persistent, Bioaccumulative and Toxic PGK: Packaging Instruction PNEC: Predicted No Effect Concentration. **PSG:** Passengers RID: Regulation Concerning the International Transport of Dangerous Goods by Rail. STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity. TLV: Threshold Limiting Value. TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard). vPvB: Very Persistent, Very Bioaccumulative. WGK: German Water Hazard Class. Paragraphs modified from the previous revision:

- SECTION 3: Composition/information on ingredients
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 15: Regulatory information
- SECTION 16: Other information