

Safety Data Sheet

MORCEM ELASTIC PM TRANSPARENTE

Safety Data Sheet dated: 30/09/2024 - version 4



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

1.1. Product identifier

Mixture identification:

Trade name: MORCEM ELASTIC PM TRANSPARENTE

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

Recommended use: Polyurethane for waterproofing and protection

Uses advised against: Data not available

1.3. Details of the supplier of the safety data sheet

GRUPO PUMA ESPAÑA S.L.

AVDA. AGRUPACIÓN CÓRDOBA, NUM. 17 14014 CÓRDOBA - CÓRDOBA - ESPAÑA

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1.4. Emergency telephone number

(National Institute of Toxicology) 0034 957 102 210

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

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

Flam. Liq. 3	Flammable liquid and vapour.
Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2	Causes serious eye irritation.
Skin Sens. 1B	May cause an allergic skin reaction.
STOT SE 3	May cause respiratory irritation.
STOT RE 2	May cause damage to organs through prolonged or repeated exposure.
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) n. 1272/2008 (CLP)

Pictograms and Signal Words



Warning

Hazard statements:

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/clothing and eye/face protection.

P370+P378 In case of fire, use a dry powder fire extinguisher to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

Special Provisions:

EUH208 Contains Carbonic acid, dimethyl ester, polymer with 1,6-hexanediol, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and 2-oxepa . May produce an allergic reaction.

EUH208 Contains 3-ISOCYANATOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYL ISOCYANATEISOPHORONE DI-ISOCYANATE. May produce an allergic reaction.

EUH204 Contains isocyanates. May produce an allergic reaction.

Contains:

o-xylene

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

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 $\geq 0.1\%$.

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Not Relevant

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Concentration (% w/w)	Name	Ident. Numb.	Classification	Registration Number
$\geq 25 - < 50$ %	Carbonic acid, dimethyl ester, polymer with 1,6-hexanediol, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and 2-oxepa	CAS:426822-87-9 EC:642-395-8	Skin Sens. 1, H317	
$\geq 20 - < 25$ %	o-xylene	CAS:1330-20-7 EC:215-535-7 Index:601-022-00-9	Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT RE 2, H373; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	01-2119488216-32-XXXX
$\geq 10 - < 20$ %	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	CAS:53880-05-0 EC:500-125-5	Skin Sens. 1B, H317; STOT SE 3, H335	01-2119488734-24-0002
$\geq 10 - < 20$ %	2-methoxy-1-methylethyl acetate	CAS:108-65-6 EC:203-603-9 Index:607-195-00-7	Flam. Liq. 3, H226	01-2119475791-29-XXXX
$\geq 0.1 - < 0.25$ %	3-ISOCYANATOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYL ISOCYANATEISOPHORONE DI-ISOCYANATE	CAS:4098-71-9 EC:223-861-6 Index:615-008-00-5	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Acute Tox. 3, H331; STOT SE 3, H335; Resp. Sens. 1, H334; Aquatic Chronic 2, H411	01-2119490408-31-XXXX

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.

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 ophthalmologist 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:

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:

In case of fire, use a dry powder fire extinguisher to extinguish.

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.

Remove all sources of ignition.

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

Always keep in a well ventilated place.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

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

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
o-xylene	National	SWEDEN		221	50	442	100		SWEDEN, Short term value, 15 minutes average value
	National	FINLAND		220	50	440	100		FINLAND, hud
	National	NORWAY		108	25				NORWAY, H
	EU	None		221	50	442	100		Skin
	National	NORWAY		109	25	218	50		
	ACGIH	None			100		150		A4, BEI - URT and eye irr, CNS impair
	DFG	GERMANY	C			880	200		
	ACGIH				100		150		A4 - Not Classifiable as a Human Carcinogen; CNS impairment; eye and upper respiratory tract irritation
	National	SWEDEN			221	50			
	National	FRANCE			221	50	442	100	
	National	SPAIN			221	50	442	100	
	National	GREECE			435	100	650	150	
	National	DENMARK			109	25			
	National	FINLAND			220	50	440	100	
	National	GERMANY			440	100			
	National	PORTUGAL			221	50	442	100	
	National	NORWAY			108	25	135	37,5	
	National	BELGIUM			221	50	442	100	
	NDS	POLAND			100				
	NDSch	POLAND					200		
	CHE	SWITZERLAND					870	200	
	NDS	NETHERLANDS			210		442		
	National	CZECH REPUBLIC			200				
	National	HUNGARY			221		442		
	Malaysi a OEL	MALAYSIA			434	100			
	National	ESTONIA			200	50	450	100	
National	LATVIA			221	50	442	100		
National	CZECH REPUBLIC	C				400			
National	SLOVAKIA	C				442			
National	SLOVAKIA			221	50				
National	SLOVENIA			221	50	442	100		
National	UNITED KINGDOM			220	50	441	100		
National	BULGARIA			221,0	50	442	100		

	National ROMANIA			221	50	442	100		
	TUR TURKEY			221	50	442	100		
	National LITHUANIA			221	50	442	100		
	National CROATIA			221	50	442	100		
	EU			221	50	442	100	Indicative	Possibility of significant uptake through the skin (pure)
2-methoxy-1-methylethyl acetate	DFG GERMANY	C				440	100		
	DFG GERMANY	C				270	50		
	National SWEDEN			275	50				
	National FRANCE			275	50	550	100		
	National SPAIN			275	50	550	100		
	National GREECE			275	50	550	100		
	National DENMARK			275	50				
	National FINLAND			270	50	550	100		
	National GERMANY			270	50				
	National PORTUGAL			275	50	550	100		
	National NORWAY			270	50	337,5	75		
	National BELGIUM			275	50	550	100		
	NDS POLAND			260					
	NDSch POLAND					520			
	CHE SWITZERLAND					275	50		
	NDS NETHERLANDS			550					
	National CZECH REPUBLIC			270					
	National HUNGARY			275		550			
	National ESTONIA			275	50	550	100		
	National LATVIA			275	50	550	100		
	National CZECH REPUBLIC	C				550			
	National SLOVAKIA	C				550			
	National SLOVAKIA			275	50				
	National SLOVENIA			275	50	550	100		
	National UNITED KINGDOM			274	50	548	100		
	National BULGARIA			275,0	50	550,0	100		
	National ROMANIA			275	50	550	100		
	TUR TURKEY			275	50	550	100		
	National LITHUANIA			250	50	400	75		
	National CROATIA			275	50	550	100		
	EU			275	50	550	100	Indicative	Possibility of significant uptake through the skin;
	EU			275	50	550	100	Indicative	Possibility of significant uptake through the skin
3-ISOCYANATOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYL ISOCYANATEISOPHORONE DI-ISOCYANATE	DFG GERMANY	C				0,046	0,005		
	ACGIH				0,005				respiratory sensitization
	National FRANCE			0,09	0,01	0,18	0,02		
	National SPAIN			0,046	0,005				
	National GERMANY			0,046	0,005				
	National PORTUGAL				0,005				

National BELGIUM	0,046	0,005		
NDS POLAND	0,04			
National NORWAY	0,045	0,005		0,01
National GREECE	0,09	0,01	0,18	0,02
National SWEDEN	0,018	0,002		
National DENMARK	0,045	0,005		
Malaysi a OEL MALAYSIA	0,045	0,005		
National ESTONIA	0,05	0,005	0,09	0,01
National SLOVENIA	0,046	0,005	0,046	0,005
National BULGARIA	0,1			
National LITHUANIA	0,05	0,005		
National LITHUANIA C			0,09	0,01

Biological Exposure Index

CAS-No.	Component	Value	UoM	Medium	Biological Indicator	Sampling Period
1330-20-7	o-xylene	1,5	GGCREAT	Urine	Methyl uric Acid	End of turn

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency	Remark
o-xylene	1330-20-7	0,327 mg/l	Fresh Water		
		0,327 mg/l	Marine water		
		12,46 mg/kg	Freshwater sediments		
		12,46 mg/kg	Marine water sediments		
		2,31 mg/kg	Soil		
		6,58 mg/l	Microorganisms in sewage treatments		
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	53880-05-0	0,32 mg/l	Intermittent release		
		0,0015 mg/l	Fresh Water		
		0,00015 mg/l	Marine water		
2-methoxy-1-methylethyl acetate	108-65-6	100 mg/l	Microorganisms in sewage treatments		
		0,635 mg/l	Fresh Water		
		0,0635 mg/l	Marine water		
		3,29 mg/kg	Freshwater sediments		
		0,329 mg/kg	Marine water sediments		
		0,29 mg/kg	Soil		
		100 mg/l	Microorganisms in sewage treatments		
		6,35 mg/l	Intermittent release		

Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industrial	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
o-xylene	1330-20-7	289 mg/m3	174 mg/m3		Human Inhalation	Short Term, local effects	

		289 mg/m ³	174 mg/m ³	Human Inhalation	Short Term, systemic effects
		180 mg/kg	108 mg/kg	Human Dermal	Long Term, systemic effects
		77 mg/m ³	14,8 mg/m ³	Human Inhalation	Long Term, systemic effects
			1,6 mg/kg	Human Oral	Long Term, systemic effects
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	53880-05-0	0,58 mg/m ³		Human Inhalation	Short Term, local effects
		0,29 mg/m ³		Human Inhalation	Long Term, local effects
2-methoxy-1-methylethyl acetate	108-65-6	153,5 mg/kg	54,8 mg/kg	Human Dermal	Long Term, systemic effects
		275 mg/m ³	33 mg/m ³	Human Inhalation	Long Term, systemic effects
			1,67 mg/kg	Human Oral	Long Term, systemic effects

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; EN ISO 374:

Polychloroprene - CR: thickness $\geq 0,5$ mm; breakthrough time ≥ 480 min.

Nitrile rubber - NBR: thickness $\geq 0,35$ mm; breakthrough time ≥ 480 min.

Butyl rubber - IIR: thickness $\geq 0,5$ mm; breakthrough time ≥ 480 min.

Fluorinated rubber - FKM: thickness $\geq 0,4$ mm; breakthrough time ≥ 480 min.

Neoprene gloves are suggested (0,5 mm) not recommended gloves: not waterproof gloves

Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN ISO 374 for gloves and EN ISO 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

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 respiratory protection where ventilation is insufficient or exposure is prolonged.

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: viscous liquid

Color: transparent

Odour: Not available

Melting point / freezing point: Not available

Initial boiling point and boiling range: Not available

Flammability: The product is classified Flam. Liq. 3 H226

Upper/lower flammability or explosive limits: Not available

Flash point: 38 °C (100 °F)

Auto-ignition temperature: Not available

Decomposition temperature: Not available

pH: Not Relevant

Viscosity: 2,000.00 cPs

Kinematic viscosity: Not available
Solubility in water: Not available
Solubility in oil: Not available
Partition coefficient (n-octanol/water): Not available
Vapour pressure: Not available
Relative density: 1.03 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

Avoid contact with combustible materials. The product could catch fire.

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 mixture:

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin Irrit. 2(H315)
c) serious eye damage/irritation	The product is classified: Eye Irrit. 2(H319)
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1B(H317)
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified 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 exposure	The product is classified: STOT SE 3(H335)
i) STOT-repeated exposure	The product is classified: STOT RE 2(H373)
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

Carbonic acid, dimethyl ester, polymer with 1,6-hexanediol, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and 2-oxepa

a) acute toxicity	LC50 Inhalation Dust Rat > 5,00000 mg/l 4h
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o-xylene	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg LC50 Inhalation Vapour Rat = 11 mg/l 4h LD50 Skin Rabbit = 3200 mg/kg LD50 Skin Rabbit > 4350 mg/kg
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		LC50 Inhalation Rat = 29,08 mg/l 4h
		LD50 Oral Rat = 3500 mg/kg
e) germ cell mutagenicity	NOAEL Inhalation Rat > 2000 ppm	
f) carcinogenicity	NOAEL Oral Rat = 500 mg/kg	
	NOAEL Oral Rat = 1000 mg/kg	
g) reproductive toxicity	NOAEL Inhalation Rat = 500 ppm	
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	a) acute toxicity	LC50 Inhalation Rat > 5 mg/l 4h
		LD50 Oral Rat > 14000 mg/kg
2-methoxy-1-methylethyl acetate	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg
		LD50 Skin Rabbit > 5 g/kg
		LD50 Oral Rat = 8532 mg/kg
3-ISOCYANATOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYL ISOCYANATE ISOPHORON E DI-ISOCYANATE	a) acute toxicity	LD50 Skin Rabbit 1060 mg/kg
		LC50 Inhalation Rat = 0,135 mg/l 4h
		LD50 Oral Rat = 1097 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 components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
Carbonic acid, dimethyl ester, polymer with 1,6-hexanediol, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and 2-oxepa	CAS: 426822-87-9 - EINECS: 642-395-8	c) Bacteria toxicity : EC50 Bacteria > 10000,00000 mg/L 3h
o-xylene	CAS: 1330-20-7 - EINECS: 215-535-7 - INDEX: 601-022-00-9	a) Aquatic acute toxicity : EC50 Daphnia = 165 mg/L 48
		a) Aquatic acute toxicity : LC50 Fish > 2 mg/L 96
		a) Aquatic acute toxicity : EC50 Algae = 2,2 mg/L 72
		c) Bacteria toxicity : EC50 = 96 mg/L 24
		b) Aquatic chronic toxicity : NOEC Fish > 1,3 mg/L
		b) Aquatic chronic toxicity : NOEC Daphnia = 1,57 mg/L
		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 13,4 mg/L 96f EPA
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 2,661 mg/L 96h EPA

		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 13,5 mg/L 96h IUCLID
		a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 13,1 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 19 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 7,711 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 23,53 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio = 780 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio > 780 mg/L 96h IUCLID
		a) Aquatic acute toxicity : LC50 Fish Poecilia reticulata 30,26 mg/L 96h EPA
		a) Aquatic acute toxicity : EC50 Daphnia water flea = 3,82 mg/L 48h
		a) Aquatic acute toxicity : LC50 Daphnia Gammarus lacustris = 0,6 mg/L 48h
		a) Aquatic acute toxicity : LC50 Fish > 1,51 mg/L 96h
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	CAS: 53880-05-0 - EINECS: 500-125-5	
		a) Aquatic acute toxicity : EC50 Daphnia > 3,36 mg/L 48h
		a) Aquatic acute toxicity : EC50 Algae > 3,1 mg/L 72h
		c) Bacteria toxicity : EC50 Bacteria > 10000 mg/L 3d
2-methoxy-1-methylethyl acetate	CAS: 108-65-6 - EINECS: 203-603-9 - INDEX: 607-195-00-7	a) Aquatic acute toxicity : EC50 Daphnia = 408 mg/L 48h
		a) Aquatic acute toxicity : LC50 Fish = 130,00000 mg/L 96h
		b) Aquatic chronic toxicity : NOEC Fish = 47,50000 mg/L 14d
		b) Aquatic chronic toxicity : NOEC Daphnia >= 100,00000 mg/L 21d
		b) Aquatic chronic toxicity : NOEC Algae >= 1000,00000 mg/L
3-ISOCYANATOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYL ISOCYANATEISOPHORONE DI-ISOCYANATE	CAS: 4098-71-9 - EINECS: 223-861-6 - INDEX: 615-008-00-5	a) Aquatic acute toxicity : EC50 Daphnia = 27,00000 mg/L 48h
		a) Aquatic acute toxicity : EC50 Algae > 70,00000 mg/L 72h
		a) Aquatic acute toxicity : IC50 Fish = 4,00000 mg/L 96h
		a) Aquatic acute toxicity : NOEC Algae = 4,40000 mg/L 72h

12.2. Persistence and degradability

Not available

12.3. Bioaccumulative potential

Not available

12.4. Mobility in soil

Not available

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

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

14.1. UN number or ID number

1139

14.2. UN proper shipping name

ADR-Shipping Name: COATING SOLUTION

IATA-Technical name: COATING SOLUTION

IMDG-Technical name: COATING SOLUTION

14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: F-E, S-E

14.6. Special precautions for user

Road and Rail (ADR-RID) :

ADR-Label: 3

ADR-Hazard identification number: 30

ADR-Special Provisions: -

ADR-Transport category (Tunnel restriction code): 3 (D/E)

Air (IATA) :

IATA-Passenger Aircraft: 355

IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisioning: A3

Sea (IMDG) :

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 955

IMDG-EMS: F-E, S-E

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) : 310 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)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1	Lower-tier threshold (tonnes)	Upper-tier threshold (tonnes)
Products belongs to category P5c	5000	50000

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, 40

Restrictions related to the substances contained: 52, 75

SVHC Substances:

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

German Water Hazard Class (WGK)

2

15.2. Chemical safety assessment

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

SECTION 16: Other information

Code	Description
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/3/Inhal	Acute Tox. 3	Acute toxicity (inhalation), Category 3

3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.1/1	Resp. Sens. 1	Respiratory Sensitisation, Category 1
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
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
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2
4.1/C2	Aquatic Chronic 2	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

2.6/3	On basis of test data
3.2/2	Calculation method
3.3/2	Calculation method
3.4.2/1B	Calculation method
3.8/3	Calculation method
3.9/2	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
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.

*** Sheet model entirely changed in compliance to regulatory update.**