Safety Data Sheet MAPEFLEX BLACKFILL

Safety Data Sheet dated: 14/06/2022 - version 3



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

1.1. Product identifier

Mixture identification:

Trade name: MAPEFLEX BLACKFILL

Trade code: 9026762 UFI: 2YN0-E0XD-D00H-2D6Y

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

Recommended use: Bituminous mastics solvent based

Uses advised against: Data not available

1.3. Details of the supplier of the safety data sheet

Company: MAPEI U.K. Ltd - Mapei House Steel Park Road

Halesowen - West Midlands B62 8HD

phone: +44(0)121 508 6970 - fax: +44(0)121 5086 960 - www.mapei.co.uk (office hour 8:30-17:30)

Responsible: sicurezza@mapei.it

1.4. Emergency telephone number

call NHS 111 or a doctor/OHES Environmental Ltd +44(0)333 333 9962

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.

Aquatic Chronic 3 Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

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

Pictograms and Signal Words



Hazard statements:

H226 Flammable liquid and vapour.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.
P273 Avoid release to the environment.

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

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

P501 Dispose of contents/container in accordance with applicable regulations.

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

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not Relevant

3.2. Mixtures

Mixture identification: MAPEFLEX BLACKFILL

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

Concentra tion (% w/w)	Name	Ident. Numb.	Classification	Registration Number
≥5 - <10 %	hydrocarbons C9 aromatics	CAS:64742-95- 6, 128601-23-0 EC:265-199-0 Index:649-356- 00-4	Flam. Liq. 3, H226; STOT SE 3, H335; Asp. Tox. 1, H304; Aquatic Chronic 2, H411, H336, EUH066	01-2119486773-24-XXXX
≥1 - <2.5 %	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
≥0.1 - <0.25 %	toluene	CAS:108-88-3 EC:203-625-9 Index:601-021- 00-3	Flam. Liq. 2, H225; Repr. 2, H361d; Asp. Tox. 1, H304; STOT RE 2, H373; Skin Irrit. 2, H315; STOT SE 3, H336	01-2119471310-51-XXXX
≥0.1 - <0.25 %	heptane; n-heptane	CAS:142-82-5 EC:205-563-8 Index:601-008- 00-2	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	01-2119475515-33-xxxx

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

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

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Not available

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

Treatment:

Not available

(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.

Remove persons to safety.

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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.

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									
	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
o-xylene CAS: 1330-20-7	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			221	50	442	100		Skin
	National	NORWAY		109	25	218	50		
	ACGIH				100		150		A4, BEI - URT and eye irr, CNS impair
	DFG	GERMANY	С			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		

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National BELGIUM NDS POLAND		221 100	50	442	100		
NDSCh POLAND				200			
CHE SWITZERLAND				870	200		
NDS NETHERLANDS		210		442			
National CZECH		200					
REPUBLIC							
National HUNGARY		221		442			
Malaysi MALAYSIA		434	100				
a OEL		15 1	100				
National ESTONIA		200	50	450	100		
National LATVIA		221	50	442	100		
	6	221	30		100		
National CZECH REPUBLIC	С			400			
National CLOVAKTA	6			442			
National SLOVAKIA	С	224	F0	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)
							(pure)
SUVA		190	50	760	200		
National SWEDEN		192	50	384	100		SWEDEN, Short term value,
							15 minutes average value
National FINLAND		81	25	380	100		FINLAND, hud, buller
National NORWAY		94	25				NORWAY, H
NDS		100					
NDSCh		200					
National NORWAY		94	25	188	50		
EU		192	50	384	100		Skin
ACGIH		172	20	301	100		A4, BEI - Visual impair,
ACGITI			20				female repro, pregnancy
							loss
DFG GERMANY	С			760	200		
ACGIH			20				A4 - Not Classifiable as a
							Human Carcinogen; female
							reproductive damage;pregnancy
							loss;visual impairment
National SWEDEN		192	50				
EU		192	50	384	100	Indicative	Possibility of significant
		± J L		551	100	maicative	uptake through the skin
National FRANCE		76,8	20	384	100		
National SPAIN		192	50	384	100		
National GREECE		192	50 35	384	100		
National DENMARK		94	25	200	100		
National FINLAND		81	25	380	100		
National GERMANY		190	50				

toluene CAS: 108-88-3

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	Nationa	I PORTUGAL		192	50	384	100	
		I BELGIUM		77	20	384	100	
	NDS	POLAND		100				
		POLAND				200		
	CHE	SWITZERLAND				760	200	
	NDS	NETHERLANDS		150		384	200	
		I CZECH		200		304		
	Naciona	REPUBLIC		200				
	Nationa	I HUNGARY		190		380		
	Malaysi	MALAYSIA		188	50			Skin notation
	a OEĹ							
	Nationa	I ESTONIA		192	50	384	100	
	Nationa	I LATVIA		50	14	150	40	
	Nationa	I CZECH	С			500		
		REPUBLIC						
		I SLOVAKIA	С			384		
		I SLOVAKIA		192	50			
	Nationa	I SLOVENIA		192	50	384	100	
	Nationa	I UNITED KINGDOM		191	50	384	100	
		I BULGARIA		192,0	50	384,0	100	
		I ROMANIA		192	50	384	100	
	TUR	TURKEY		192	50	384	100	
	Nationa	I LITHUANIA		192	50	384	100	
	Nationa	I CROATIA		192	50	384	100	
heptane; n-heptane CAS: 142-82-5	NDS			1200				
CA3. 142-62-3								
	Nationa	SWEDEN		800	200	1200	300	SWEDEN, Short-term value, 15 minutes average value
								15 minutes average value
		I NORWAY		800	200			
	NDSCh			2000				
	EU			2085	500			
	ACGIH				400		500	CNS impair, URT irr
	DFG	GERMANY	С			2100	500	
	ACGIH				400		500	CNS impairment (listed under Heptane, all isomers);upper respiratory tract irritation (listed under
								Heptane, all isomers)
	Nationa	SWEDEN		800	200			
	Nationa	I FRANCE		1668	400	2085	500	
	Nationa	I SPAIN		2085	500			
	Nationa	I GREECE		2000	500	2000	500	
	Nationa	I DENMARK		820	200			
	Nationa	I FINLAND		1200	300	2100	500	
	Nationa	I GERMANY		2100	500			
	Nationa	I PORTUGAL		2085	500		500	
		I BELGIUM		1664	400	2085	500	
	NDS	POLAND		1200				
		POLAND				2000		
	CHE	SWITZERLAND				1600	400	
	NDS	NETHERLANDS		1200		1600		
	Nationa			1000				
	Nations	I HUNGARY		2000				
	ivatiOHā	TARDITOTE		2000				

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Malaysi MALAYSIA a OEL		1640	400			
National ESTONIA		2085	500			
National LATVIA		350	85	2085	500	
National CZECH REPUBLIC	С			2000		
National SLOVAKIA		2085	500			
National SLOVENIA		2085	500			
National UNITED KINGDOM		2085	500	6255	1500	
National BULGARIA		1600				
National ROMANIA		2085	500			
TUR TURKEY		2085	500			
National LITHUANIA		2085	500	3128	750	
National CROATIA		2085	500			
EU		2085	500			Indicative

Biological Exposure Index

	Value	UoM	Medium	Biological Indicator	Sampling Period
o-xylene CAS: 1330-20-7	1,5	GGCREAT	Urine	Methyl uric Acid	End of turn
toluene CAS: 108-88-3	0,02	mg/L	Blood	Toluene	Before last turn of the working week
	0,03	mg/L	Urine	Toluene	End of turn
	0,3	MGGCREAT	Urine	O-Cresol	End of turn

Predicted No Effect Concentration (PNEC) values					
	PNEC Limit	Exposure Route	Exposure Frequency Remark		
o-xylene CAS: 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			
	0,32 mg/l	Intermittent release			
toluene CAS: 108-88-3		Freshwater sediments	PNEC		
		Soil	PNEC		
		Marine water sediments	PNEC		
		Fresh Water	PNEC		
		Marine water	PNEC		
		Intermittent release	PNEC		
		Microorganisms in sewage treatments			

Derived No Effect Level. (DNEL)

	Worker Worker Industr Profess y ional		Exposure Route	Exposure Frequency Remark
o-xylene CAS: 1330-20-7	289 mg/m3	174 mg/m3	Human Inhalation	Short Term, local effects

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	289 mg/m3	174 mg/m3	Human Inhalation	Short Term, systemic effects
	180 mg/kg	108 mg/kg	Human Dermal	Long Term, systemic effects
	77 mg/m3	14,8 mg/m3	Human Inhalation	Long Term, systemic effects
		1,6 mg/kg	Human Oral	Long Term, systemic effects
toluene CAS: 108-88-3	384 mg/m3	226 mg/kg	Human Dermal	Long Term, systemic effects
	192 mg/m3		Human Inhalation	Long Term, systemic effects
			Human Oral	Long Term, systemic effects
		226 mg/kg	Human Dermal	Long Term, systemic effects
	384 mg/m3		Human Inhalation	Short Term, systemic effects

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Suitable materials for safety gloves; EN ISO 374:

Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min. Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min. Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

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.

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: paste

Color: Black

Odour: Characteristic

Odour threshold: 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: 30 °C (86 °F)

Auto-ignition temperature: Not available Decomposition temperature: Not available

pH: Not available Viscosity: Not available

Kinematic viscosity: Not available Solubility in water: Insoluble

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Solubility in oil: partly soluble

Partition coefficient (n-octanol/water): Not available

Vapour pressure: Not available Relative density: Not available 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

Based on available data, the classification criteria are not met

c) serious eye damage/irritation Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation Not classified

Based on available data, the classification criteria are not met

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 Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

hydrocarbons C9 aromatics

a) acute toxicity

LD50 Skin Rabbit > 2000 mg/kg

LD50 Oral Rat = 3492, mg/kg

LC50 Inhalation Vapour Rat = 6193, mg/m3

o-xylene a) acute toxicity LD50 Oral Rat > 2000 mg/kg

LC50 Inhalation Vapour Rat = 11 mg/l 4h

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LD50 Skin Rabbit = 3200 mg/kg LD50 Skin Rabbit > 4350 mg/kg 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

toluene a) acute toxicity LD50 Oral Rat = 5580, mg/kg

LD50 Skin Rabbit = 12124, mg/kg LC50 Inhalation Rat = 12,5 mg/l 4h

g) reproductive toxicity NOAEC Rat = 1200, ppm

NOAEL Rat = 2000, ppm

heptane; n-heptane a) acute toxicity LD50 Skin Rabbit = 3000 mg/kg

LC50 Inhalation Rat = 103 g/m3 4h LD50 Oral Mouse = 5000 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:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 3(H412)

List of components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
hydrocarbons C9 aromatics	CAS: 64742-95- 6, 128601-23-0 - EINECS: 265- 199-0 - INDEX: 649-356-00-4	a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss = 9,22 mg/L 96h IUCLID
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 21,3 mg/L 48h IUCLID

o-xylene CAS: 1330-20-7 a) Aquatic acute toxicity: EC50 Daphnia = 165 mg/L 48

- EINECS: 215-535-7 - INDEX: 601-022-00-9

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/Lb) Aquatic chronic toxicity: NOEC Daphnia = 1,57 mg/L

a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 13,4 mg/L 96h

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

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a) Aquatic acute toxicity: LC50 Fish Lepomis macrochirus 7,711 mg/L 96h

a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 23,53 mg/L 96h

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

toluene CAS: 108-88-3 - a) Aquatic acute toxicity: EC50 Algae = 134 mg/L 3

EINECS: 203-625-9 - INDEX: 601-021-00-3

a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata >433

mg/L 96h IUCLID

a) Aquatic acute toxicity : LC50 Fish = 5.5 mg/L 96h

heptane; n-heptane CAS: 142-82-5 - a) Aquatic acute toxicity: LC50 Fish = 375 mg/L 96

EINECS: 205-563-8 - INDEX: 601-008-00-2

a) Aquatic acute toxicity: EC50 Daphnia = mg/L 48a) Aquatic acute toxicity: LC50 Algae = mg/L 72

a) Aquatic acute toxicity: LC50 Fish Cichlid fish = 375 mg/L 96h

12.2. Persistence and degradability

Component Persitence/Degradability:

toluene Readily biodegradable

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 \geq 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:

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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

1133

14.2. UN proper shipping name

ADR-Shipping Name: ADHESIVES (sodium p-chloro-m-cresolate)

IATA-Technical name: ADHESIVES containing flammable liquid (sodium p-chloro-m-cresolate) IMDG-Technical name: ADHESIVES containing flammable liquid (sodium p-chloro-m-cresolate)

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-D

14.6. Special precautions for user

Road and Rail ($\ensuremath{\mathsf{ADR}\text{-}\mathsf{RID}}$) :

ADR-Label: 3

ADR-Hazard identification number: -

ADR-Special Provisions: -

ADR-Transport category (Tunnel restriction code): 3 (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: 223 955

IMDG-EMS: F-E, S-D

14.7. Maritime transport in bulk according to IMO instruments

Not Applicable

Transport in accordance with 2.2.3.1.5 of ADR and 2.3.2.5 of the IMDG Code.

SECTION 15: Regulatory information

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

VOC (2004/42/EC): N.A. 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)

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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 Lower-tier threshold according to Annex 1, part 1 (tonnes) Upper-tier threshold (tonnes)

Products belongs to category 5000 50000

P5c

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: 48, 75

SVHC Substances:

SVHC substances not present in a concentration ≥ 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					
EUH066	Repeated exposure may cause skin drynes	s or cracking.				
H225	Highly flammable liquid and vapour.					
H226	Flammable liquid and vapour.					
H304	May be fatal if swallowed and enters airwa	ys.				
H312	Harmful in contact with skin.					
H315	Causes skin irritation.					
H319	Causes serious eye irritation.					
H332	Harmful if inhaled.	Harmful if inhaled.				
H335	May cause respiratory irritation.					
H336	May cause drowsiness or dizziness.					
H361d	Suspected of damaging the unborn child.					
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.					
H412	Harmful to aquatic life with long lasting eff	ects.				
Code	Hazard class and hazard category	Description				
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2				
2.6/3	Flam. Liq. 3	Flammable liquid, 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				
3.7/2	Repr. 2	Reproductive toxicity, Category 2				

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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/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
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 Classification procedure (EC) Nr. 1272/2008

2.6/3 On basis of test data 4.1/C3 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

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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.

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