Safety Data Sheet PURTOP ADY

Safety Data Sheet dated: 14/04/2022 - version 2



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

1.1. Product identifier

Mixture identification:

Trade name: PURTOP ADY Trade code: 9073525 UFI: 6A21-A0AJ-G00S-AJ48

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

Recommended use: Crosslinking agent 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. Lig. 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.

Aquatic Chronic 1 Very toxic 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.

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.

Very toxic to aquatic life with long lasting effects. H410

Precautionary statements:

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

P273 Avoid release to the environment.

P280 Wear protective gloves/clothing and eye/face protection.

Print date 28/04/2022 Production Name **PURTOP ADY** Page n. 1 of 12 P370+P378 In case of fire, use a dry powder fire extinguisher to extinguish.

P391 Collect spillage.

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

Contains:

o-xylene

4,4'-methylenebis[N-sec-butylaniline]

diethylmethylbenzenediamine

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

Mixture identification: PURTOP ADY

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

Concentration (% w/w)	Name	Ident. Numb.	Classification	Registration Number
≥25 - <50 %	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
≥20 - <25 %	diethylmethylbenzenediamine	CAS:68479-98-1 EC:270-877-4 Index:612-130- 00-0	STOT RE 2, H373; Eye Irrit. 2, H319; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H312	01-2119486805-25-XXXX
≥10 - <20 %	4,4'-methylenebis[N-sec-butylaniline]	CAS:5285-60-9 EC:226-122-6	Acute Tox. 4, H302; STOT RE 2, H373; Aquatic Chronic 1, H410; Skin Sens. 1B, H317, M-Chronic:1	01-2120807289-49-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 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:

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).

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(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	Term	Long Term	Short Term	Short Term	Behaviour Note
				ma/m3	ppm	ma/m3	ppm	

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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	PORTUGA	L	221	50	442	100		
	National	NORWAY		108	25	135	37,5		
	National	BELGIUM		221	50	442	100		
	NDS	POLAND		100					
	NDSCh	POLAND				200			
	CHE	SWITZER	LAND			870	200		
	NDS	NETHERLA	ANDS	210		442			
	National	CZECH REPUBLIC	:	200					
	National	HUNGARY	,	221		442			
	Malaysi a OEL	MALAYSIA	A	434	100				
	National	ESTONIA		200	50	450	100		
	National	LATVIA		221	50	442	100		
	National	CZECH REPUBLIC	C			400			
	National	SLOVAKIA	A C			442			
	National	SLOVAKIA	A	221	50				
	National	SLOVENIA	4	221	50	442	100		
	National	UNITED KINGDOM		220	50	441	100		
	National	BULGARIA	4	221,0	50	442	100		
	National	ROMANIA		221	50	442	100		
	TUR	TURKEY		221	50	442	100		
	National	LITHUANI	Α	221	50	442	100		
	National	CROATIA		221	50	442	100		
	EU			221	50	442	100	Indicative	Possibility of significant uptake through the skin (pure)
	DFG	GERMANY	C			440	100		
Biological Exposu		Value !	IoM	NA - J.		D:=!==!	nl Tmd!a-+-	C'	na Doried
	omponent		JoM GGCREAT	Mediu	1111		al Indicator	End of t	ng Period
	xylene			Urine		Methyl ur	TIC ACIU	בווט טר ז	Luiti
Predicted No Effec	ct Concentrati	on (PNEC	Predicted No Effect Concentration (PNEC) values						

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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	
		0,32 mg/l	Intermittent release	
diethylmethylbenzenedia mine	68479-98-1	0,001 mg/l	Fresh Water	
		0,005 mg/l	Intermittent release	
		17 mg/l	Microorganisms in sewage treatments	
		0,029 mg/kg	Freshwater sediments	
		0,003 mg/kg	Marine water sediments	
		0,0056 mg/kg	Soil	
		2 mg/kg	Oral	

Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Worke Industr Profes y ional		Exposure Route	Exposure Frequency Remark
o-xylene	1330-20-7	289 mg/m3	174 mg/m3	Human Inhalation	Short Term, local effects
		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
diethylmethylbenzenedia mine	68479-98-1	0,13 mg/m3	0,1 mg/m3	Human Inhalation	Long Term, systemic effects
		1 mg/kg	1 mg/kg	Human Dermal	Long Term, systemic effects
			0,1 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 >=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

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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.

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: liquid Color: Dark brown Odour: solvent like

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: 32 °C (90 °F)

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

pH: Not available Viscosity: 30.00 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: 0.95 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)

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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:

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 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

diethylmethylbenzenedia a) acute toxicity

mine

LD50 Oral Rat = 738 mg/kg

4,4'-methylenebis[N-sec- a) acute toxicity

butylaniline]

LD50 Oral Rat = 1380,00000 mg/kg

LD50 Skin Rat > 2000,00000 mg/kg 24h

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:

Very toxic 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 1(H410)

List of components with eco-toxicological properties

Component Ident. Numb. Ecotox Infos

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

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

:PA

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 E

a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 19 mg/L 96h E

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

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

ΕPΑ

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 IUCLi

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 48 h

a) Aquatic acute toxicity: LC50 Daphnia Gammarus lacustris = 0,6 mg/L 4

diethylmethylbenzenediamine

CAS: 68479-98-1 -EINECS: 270-877-4

- INDEX: 612-130-

00-0

a) Aquatic acute toxicity: LC50 Fish = 200 mg/L 48h

a) Aquatic acute toxicity: EC50 Daphnia = 0,5 mg/L 48h
 a) Aquatic acute toxicity: EC50 Algae = 104 mg/L 72h

4,4'-methylenebis[N-sec- CAS:

butylaniline]

CAS: 5285-60-9 -EINECS: 226-122-6 a) Aquatic acute toxicity: LC50 Fish > 0,61000 mg/L 96h ECHA

a) Aquatic acute toxicity: EC50 Daphnia = 0,21000 mg/L 48h ECHA

12.2. Persistence and degradability

Component Persitence/Degradabili

ty:

diethylmethylbenzenediamine Non-readily

biodegradable

12.3. Bioaccumulative potential

ComponentBioaccumulationTestValuediethylmethylbenzenediamineNot bioaccumulativeBCF - Bioconcentrantion2,750

factor

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.

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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 (diethylmethylbenzenediamine) IATA-Technical name: COATING SOLUTION (diethylmethylbenzenediamine) IMDG-Technical name: COATING SOLUTION (diethylmethylbenzenediamine)

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

Toxic Component most present: diethylmethylbenzenediamine

Marine pollutant: Yes Environmental Pollutant: Yes

IMDG-EMS: F-E, S-E

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR exempt: No 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

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

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 (tonnes) Products belongs to category

Lower-tier threshold

5000

Upper-tier threshold

10of

(tonnes) 50000

P5c

Products belongs to category E1 100

200

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)

Code

H226

15.2. Chemical safety assessment

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

SECTION 16: Other information

Description

Flammable liquid and vapour.

H302	Harmful if swallowed.							
H304	May be fatal if swallowed and enters airways.							
H312	Harmful in contact wi	Harmful in contact with skin.						
H315	Causes skin irritation							
H317	May cause an allergio	skin reaction.						
H319	Causes serious eye ir	ritation.						
H332	Harmful if inhaled.							
H335	May cause respiratory irritation.							
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.							
H412	Harmful to aquatic lif	e with long lasting ef	fects.					
Code	Hazard class and h	azard category	Description					
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					
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3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), 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
3.4.2/1B	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/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
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
4.1/C1	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

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

 ${\sf GefStoffVO: Ordinance\ on\ Hazardous\ Substances,\ Germany.}$

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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.

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