Safety Data Sheet MAPEPLAN ADS 210

Safety Data Sheet dated: 17/01/2020 - version 2



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

1.1. Product identifier

Mixture identification:

Trade name: MAPEPLAN ADS 210 Trade code: 76701021001

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

Recommended use: Adhesive

Uses advised against: Data not available

1.3. Details of the supplier of the safety data sheet

Company: POLYGLASS S.p.A.

Registered office: Viale Jenner, 4 - 20159 Milano

Headquarter: Via dell'Artigianato, 34- 31047 Ponte di Piave (TV)

Responsable: info@polyglass.it

1.4. Emergency telephone number

Poison Centre - Ospedale di Niguarda - Milan - Tel. +39/02/66101029

POLYGLASS S.p.A. Tel: +39-0422-7547

Fax: +39-0422-854118 (office hours)

SECTION 2: Hazards identification







2.1. Classification of the substance or mixture

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

Aerosols 1 Extremely flammable aerosol. Pressurized container: may burst if heated.

Skin Irrit. 2 Causes skin irritation.

Eye Irrit. 2 Causes serious eye irritation.

Resp. Sens. 1 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 May cause an allergic skin reaction.
Carc. 2 Suspected of causing cancer.

STOT SE 3 May cause drowsiness or dizziness.

STOT RE 2 May cause damage to organs through prolonged or repeated exposure.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

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

Pictograms and Signal Words



Danger

Hazard statements:

H222+H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H336 May cause drowsiness or dizziness.H351 Suspected of causing cancer.

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.

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P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

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

Contains:

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate

methyl acetate

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

. .

2.3. Other hazards

No PBT/vPvB Ingredients are present

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: MAPEPLAN ADS 210

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

Quantity	Name	Ident. Numb.	Classification	Registration Number
≥25 - <50 %	dimethyl ether	CAS:115-10-6 EC:204-065-8	Flam. Gas 1, H220; Press. Gas (Liq.), H280	01-2119472128-37-XXXX
≥20 - <25 %	methyl acetate	CAS:79-20-9 EC:201-185-2 Index:607-021-00-	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066 X	01-2119459211-47-XXXX
≥10 - <20 %	4,4'-methylenediphenyl diisocyanate; diphenylmethane- 4,4'-diisocyanate	CAS:101-68-8 EC:202-966-0 Index:615-005-00-	Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335; Skin 9 Irrit. 2, H315; Resp. Sens. 1,1A,1B, H334; Skin Sens. 1,1A,1B, H317; STOT RE 2, H373; Carc. 2, H351	01-2119457014-47-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:

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

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:

CO2 or Dry chemical fire extinguisher.

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.

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

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	Term	Behaviour Note
dimethyl ether	DFG	GERMANY	С			15200	8000	
	National	SWEDEN		950	500			
	National	FRANCE		1920	1000			
	National	SPAIN		1920	1000			

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National	GREECE		1920	1000				
National	DENMARK		1920	1000				
National	FINLAND		2000	1000				
National	GERMANY		1900	1000				
National	PORTUGAL		1920	1000				
National	NORWAY		384	200	480	250		
National	BELGIUM		1920	1000				
NDS	POLAND		1000					
NDS	NETHERLANDS		950		1500			
National	CZECH REPUBLIC		1000					
National	HUNGARY		1920		7680			
National	ESTONIA		1920	1000				
National	LATVIA		1920	1000				
National	CZECH REPUBLIC	С			2000			
National	SLOVAKIA		1920	1000				
National	SLOVENIA		1920	1000				
National	UNITED KINGDOM		766	400	958	500		
National	BULGARIA		1920	1000				
National	ROMANIA		1920	1000				
TUR	TURKEY		1920	1000				
National	LITHUANIA		1920	1000	2280	1500		
National	CROATIA		1920	1000				
EU			1920	1000			Indicative	
National	HUNGARY		1920					
SUVA	NNN		100	310	400	1240		
National	SWEDEN		450	150	900	300		SWEDEN, Short-term value, 15 minutes average value
National	FINLAND		610	200	770	250		
National	NORWAY		305	100				
NDS	NNN		250					
NDSCh	NNN		600					
ACGIH	NNN			200		250		Headache, dizziness, nausea, eye dam (degeneration of ganglion cells in the retina)
National	NORWAY		455	150	910	300		
DFG	GERMANY	С			1240	400		
ACGIH				200		250		headache;dizziness; nausea;eye damage (degeneration of ganglion cells in the retina)
National	SWEDEN		450	150				
National	FRANCE		610	200	760	250		
National	SPAIN		616	200	770	250		
National	GREECE		610	200	760	250		
National	DENMARK		455	150				
National	GERMANY		620	200				
National	PORTUGAL			200		250		
National	NORWAY		305	100	381,25	125		
National	BELGIUM		615	200	768	250		
NDS	POLAND		250					
NDSCh	POLAND				600			

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CHE	SWITZERLAND				1240	400	
National	CZECH REPUBLIC		600				
National	HUNGARY		610		2440		
Malaysia OEL	MALAYSIA		606	200			
National	ESTONIA		450	150	900	300	
National	LATVIA		100				
National	CZECH REPUBLIC	С			800		
National	SLOVAKIA	С			770		
National	SLOVAKIA		310	100			
National	SLOVENIA		610	200	2440	800	
National	UNITED KINGDOM		616	200	770	250	
National	ROMANIA		200	63	600	188	
National	LITHUANIA		450	150	900	300	
National	CROATIA		616	200	770	250	
National	NORWAY		0,050	0,005			A 4
GUN 44			2 222		0.000		
SUVA	NNN	6	0,020	0.000	0,020	0.005	CWEDEN Calling limit walks
National	SWEDEN	С	0,030	0,002	0,050	0,005	SWEDEN, Ceiling limit value
NDS	NNN		0,030				
NDSP	NNN		0,090	0.005			Doen sons
ACGIH	NNN POLAND		0.020	0,005	0.000		Resp sens
National National			0,030 0,050	0,005	0,090 0,100	0,010	
DFG	AUSTRIA GERMANY	С	0,030	0,003	0,050	0,010	
ACGIH	NNN	C		0,005	0,030		respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI))
National	CWEDEN		0.020	0.003			,,
National National	SWEDEN FRANCE		0,030 0,100	0,002 0,010	0,200	0,020	
National	SPAIN		0,100	0,010	0,200	0,020	
National	DENMARK		0,052	0,005			
National	GERMANY		0,050	0,003			
National	PORTUGAL		0,050	0,005			
National	BELGIUM		0,052	0,005			
NDS	POLAND		0,030	,			
NDSCh	POLAND		•		0,090		
National	CZECH REPUBLIC		0,050				
National	HUNGARY		0,05		0,050		
Malaysia OEL	MALAYSIA		0,051	0,005			
National	ESTONIA		0,050	0,005	0,100	0,010	
National	CZECH REPUBLIC	С			0,100		
National	SLOVAKIA		0,002				
National	SLOVAKIA		0,030				
National	SLOVENIA		0,050		0,050		
National	ROMANIA				0,150		

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'diisocyanate

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National LITHUANIA 0,050 0,005

National LITHUANIA C 0,100 0,010

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency	Remark		
dimethyl ether	115-10-6	0,155 mg/l	Fresh Water				
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'- diisocyanate	101-68-8	1 mg/l	Fresh Water				
		0,1 mg/l	Marine water				
		1 mg/kg	Soil				
		1 mg/l	Microorganisms in sewage treatments				
		10, 000000 mg/l	Intermittent release				

Derived No Effect Level. (DNEL)

Derived no effect Level. (DNEL)							
Component	CAS-No.	Worker Worke Industr Profes y ional		Exposure Route	Exposure Frequency Remark		
dimethyl ether	115-10-6	1894 mg/m3	471 ppm	Human Inhalation	Long Term, systemic effects		
4,4'- methylenediphenyl diisocyanate; diphenylmethane- 4,4'-diisocyanate	101-68-8	50 mg/kg		Human Dermal	Short Term, systemic effects		
		0,1 mg/m3		Human Inhalation	Short Term, systemic effects		
		0,1 mg/m3		Human Inhalation	Short Term, local effects		
		0,05 mg/m3		Human Inhalation	Long Term, systemic effects		
		0,05 mg/m3		Human Inhalation	Long Term, local effects		
			25 mg/kg	Human Dermal	Short Term, systemic effects		
			0,05 mg/m3	Human Inhalation	Short Term, systemic effects		
			20 mg/kg	Human Ora	l Short Term, systemic effects		
			0,05 mg/m3	Human Inhalation	Short Term, local effects		
			0,025 mg/m3	Human Inhalation	Long Term, systemic effects		
			0,025 mg/m3	Human Inhalation	Long Term, local effects		
		28,7 mg/cm2	17,2 mg/cm2	Human 2 Dermal	Short Term, local effects		

8.2. Exposure controls

Eye protection:

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

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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 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 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Use adequate protective respiratory equipment.

Hygienic and Technical measures

N.A.

Appropriate engineering controls:

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Gas

Appearance and colour: aerosol 4,50012,

Odour: ether-like Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.
Initial boiling point and boiling range: N.A.

Flash point: -41 °C (-42 °F) Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.
Vapour pressure: N.A.
Relative density: N.A.
Solubility in water: Insoluble

Partition coefficient (n-octanol/water): N.A. - This product is a mixture

Auto-ignition temperature: 226.00 °C - No explosive or spontaneous ignition in contact with air at room temperature

Decomposition temperature: N.A.

Viscosity: N.A.

Kinematic viscosity: Kv > 20.5

Explosive properties: N.A. - No components with explosive properties
Oxidizing properties: N.A. - No component with oxidizing properties

Solid/gas flammability: N.A.

9.2. Other information

No additional 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

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11.1. Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

a) acute toxicity

dimethyl ether

a) acute toxicity LC50 Inhalation Rat = 308 mg/l 4h

LC50 Inhalation Gas Rat = 164

LC50 Inhalation Rat = 164000 ppm 4h

methyl acetate

a) acute toxicity LD50 Skin Rabbit > 5 g/kg

LC50 Inhalation Rat > 49000 mg/m3 4h

LD50 Oral Rat > 5 g/kg

4,4'-methylenediphenyl

diisocyanate; diphenylmethane-4,4'-

diisocyanate

LD50 Oral Rat > 2000 mg/kg

LD50 Skin Rabbit > 9400 mg/kg

LC50 Inhalation Dust Rat = 0,368 mg/l 4h LC50 Inhalation Rat = 369 mg/m3 4h

LD50 Oral Rat = 31600 mg/kg

b) skin corrosion/irritation Skin Irritant Skin Rabbit Positive

d) respiratory or skin

sensitisation

Skin Sensitization Skin Mouse Positive

Respiratory Sensitization Inhalation Positive

f) carcinogenicity Carcinogenicity Inhalation Rat = 6 mg/m3 2 y g) reproductive toxicity NOAEL Inhalation Rat = 12 mg/m3 20 d

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure

Toxicological kinetics, metabolism and distribution information

- i) STOT-repeated exposure
- j) aspiration hazard

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

Component Ecotox Infos

MAPEPLAN ADS 210 a) Aquatic acute toxicity: LC50 Fish > 1000 mg/L 96

a) Aquatic acute toxicity: EC50 Daphnia > 500 mg/L 48a) Aquatic acute toxicity: EC50 Algae = 1640 mg/L 72

List of components with eco-toxicological properties

Component Ident. Numb. Ecotox Infos

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methyl acetate

CAS: 79-20-9 - EINECS: a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 295 mg/L 96h EPA

201-185-2 - INDEX: 607-

021-00-X

a) Aquatic acute toxicity: LC50 Fish Brachydanio rerio 250 mg/L 96h IUCLID

a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus > 120 mg/L

72h IUCLID

a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 1026,7 mg/L 48h

IUCLID

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate

CAS: 101-68-8 - EINECS: a) Aquatic acute toxicity: LC50 Fish > 1000 mg/L 96

202-966-0 - INDEX: 615-

005-00-9

a) Aquatic acute toxicity: EC50 Daphnia > 1000 mg/L 24 b) Aquatic chronic toxicity: NOEC Daphnia > 10 mg/L - 21 d

a) Aquatic acute toxicity: EC50 Algae > 1640 mg/L 72

c) Bacteria toxicity: EC50 > 100 mg/L 3

d) Terrestrial toxicity: NOEC > 1000 mg/kg - 14 d e) Plant toxicity: NOEC > 1000 mg/kg - 14 d

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

NΑ

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT/vPvB Ingredients are present

12.6. Other adverse effects

NΑ

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

A waste code according to European waste catalogue (EWC) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

Product:

Do not dispose of waste into sewers.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to an authorized waste disposal service.

Contaminated packaging:

Empty remaining content.

Dispose of as unused product.

Do not re-use empty containers.

SECTION 14: Transport information

14.1. UN number

3501

14.2. UN proper shipping name

ADR-Shipping Name: CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. IATA-Technical name: CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. IMDG-Technical name: CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.

14.3. Transport hazard class(es)

ADR-Class: 2 IATA-Class: 2.1 IMDG-Class: 2.1

14.4. Packing group

ADR-Packing Group: -

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IATA-Packing group: IMDG-Packing group: -

14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

14.6. Special precautions for user

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

ADR-Label: 2.1

ADR-Hazard identification number: 23 ADR-Special Provisions: 274 659

ADR-Transport category (Tunnel restriction code): 2 (B/D)

Air (IATA):

IATA-Passenger Aircraft: Forbidden

IATA-Cargo Aircraft: 218

IATA-Label: 2.1

IATA-Subsidiary hazards: -

IATA-Erg: 10L

IATA-Special Provisioning: A1 A187

Sea (IMDG):

IMDG-Stowage Code: Category D SW2

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 274 362

IMDG-Page: N/A
IMDG-Label: N/A
IMDG-EMS: F-D, S-U
IMDG-MFAG: N/A

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

N.A.

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) 2015/830

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) 11 2010/1179 (ATD 40 CLD)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

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

Seveso III category Lower-tie according to Annex 1, part 1 (tonnes)

Lower-tier threshold (tonnes)

Upper-tier threshold (tonnes)

500

Products belongs to category

3a

P3a

German Water Hazard Class.

N.A.

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

150

Restrictions related to the product: 40

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SVHC Substances:

Code

No data available

15.2. Chemical safety assessment

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

SECTION 16: Other information

Description

EUH066	Repeated exposure may cause skin dryness or cracking.						
H220	Extremely flammable gas.						
H222+H229	Extremely flammable aerosol. Pressurized container: may burst if heated.						
H225	Highly flammable liquid and vapour.						
H280	Contains gas under pressure; may explode	e if heated.					
H315	Causes skin irritation.						
H317	May cause an allergic skin reaction.						
H319	Causes serious eye irritation.						
H332	Harmful if inhaled.						
H334	May cause allergy or asthma symptoms or	breathing difficulties if inhaled.					
H335	May cause respiratory irritation.						
H336	May cause drowsiness or dizziness.						
H351	Suspected of causing cancer.	Suspected of causing cancer.					
H373	May cause damage to organs through prolonged or repeated exposure.						
H373	May cause damage to organs through prol	onged or repeated exposure if inhaled.					
Code	Hazard class and hazard category	Description					
Code 2.2/1	Hazard class and hazard category Flam. Gas 1	Description Flammable gas, Category 1					
		-					
2.2/1	Flam. Gas 1	Flammable gas, Category 1					
2.2/1 2.3/1	Flam. Gas 1 Aerosols 1	Flammable gas, Category 1 Aerosol, Category 1					
2.2/1 2.3/1 2.5/L	Flam. Gas 1 Aerosols 1 Press. Gas (Liq.)	Flammable gas, Category 1 Aerosol, Category 1 Gases under pressure (Liquefied gas)					
2.2/1 2.3/1 2.5/L 2.6/2	Flam. Gas 1 Aerosols 1 Press. Gas (Liq.) Flam. Liq. 2	Flammable gas, Category 1 Aerosol, Category 1 Gases under pressure (Liquefied gas) Flammable liquid, Category 2					
2.2/1 2.3/1 2.5/L 2.6/2 3.1/4/Inhal	Flam. Gas 1 Aerosols 1 Press. Gas (Liq.) Flam. Liq. 2 Acute Tox. 4	Flammable gas, Category 1 Aerosol, Category 1 Gases under pressure (Liquefied gas) Flammable liquid, Category 2 Acute toxicity (inhalation), Category 4					
2.2/1 2.3/1 2.5/L 2.6/2 3.1/4/Inhal 3.2/2	Flam. Gas 1 Aerosols 1 Press. Gas (Liq.) Flam. Liq. 2 Acute Tox. 4 Skin Irrit. 2	Flammable gas, Category 1 Aerosol, Category 1 Gases under pressure (Liquefied gas) Flammable liquid, Category 2 Acute toxicity (inhalation), Category 4 Skin irritation, Category 2					
2.2/1 2.3/1 2.5/L 2.6/2 3.1/4/Inhal 3.2/2 3.3/2	Flam. Gas 1 Aerosols 1 Press. Gas (Liq.) Flam. Liq. 2 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2	Flammable gas, Category 1 Aerosol, Category 1 Gases under pressure (Liquefied gas) Flammable liquid, Category 2 Acute toxicity (inhalation), Category 4 Skin irritation, Category 2 Eye irritation, Category 2					
2.2/1 2.3/1 2.5/L 2.6/2 3.1/4/Inhal 3.2/2 3.3/2 3.4.1/1	Flam. Gas 1 Aerosols 1 Press. Gas (Liq.) Flam. Liq. 2 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 Resp. Sens. 1	Flammable gas, Category 1 Aerosol, Category 1 Gases under pressure (Liquefied gas) Flammable liquid, Category 2 Acute toxicity (inhalation), Category 4 Skin irritation, Category 2 Eye irritation, Category 2 Respiratory Sensitisation, Category 1					
2.2/1 2.3/1 2.5/L 2.6/2 3.1/4/Inhal 3.2/2 3.3/2 3.4.1/1 3.4.1/1-1A-1B	Flam. Gas 1 Aerosols 1 Press. Gas (Liq.) Flam. Liq. 2 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 Resp. Sens. 1 Resp. Sens. 1,1A,1B	Flammable gas, Category 1 Aerosol, Category 1 Gases under pressure (Liquefied gas) Flammable liquid, Category 2 Acute toxicity (inhalation), Category 4 Skin irritation, Category 2 Eye irritation, Category 2 Respiratory Sensitisation, Category 1 Respiratory Sensitisation, Category 1,1A,1B					
2.2/1 2.3/1 2.5/L 2.6/2 3.1/4/Inhal 3.2/2 3.3/2 3.4.1/1 3.4.1/1-1A-1B 3.4.2/1	Flam. Gas 1 Aerosols 1 Press. Gas (Liq.) Flam. Liq. 2 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 Resp. Sens. 1 Resp. Sens. 1,1A,1B Skin Sens. 1	Flammable gas, Category 1 Aerosol, Category 1 Gases under pressure (Liquefied gas) Flammable liquid, Category 2 Acute toxicity (inhalation), Category 4 Skin irritation, Category 2 Eye irritation, Category 2 Respiratory Sensitisation, Category 1 Respiratory Sensitisation, Category 1,1A,1B Skin Sensitisation, Category 1					
2.2/1 2.3/1 2.5/L 2.6/2 3.1/4/Inhal 3.2/2 3.3/2 3.4.1/1 3.4.1/1-1A-1B 3.4.2/1 3.4.2/1-1A-1B	Flam. Gas 1 Aerosols 1 Press. Gas (Liq.) Flam. Liq. 2 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 Resp. Sens. 1 Resp. Sens. 1,1A,1B Skin Sens. 1 Skin Sens. 1	Flammable gas, Category 1 Aerosol, Category 1 Gases under pressure (Liquefied gas) Flammable liquid, Category 2 Acute toxicity (inhalation), Category 4 Skin irritation, Category 2 Eye irritation, Category 2 Respiratory Sensitisation, Category 1 Respiratory Sensitisation, Category 1,1A,1B Skin Sensitisation, Category 1 Skin Sensitisation, Category 1,1A,1B					
2.2/1 2.3/1 2.5/L 2.6/2 3.1/4/Inhal 3.2/2 3.3/2 3.4.1/1 3.4.1/1-1A-1B 3.4.2/1 3.4.2/1-1A-1B 3.6/2	Flam. Gas 1 Aerosols 1 Press. Gas (Liq.) Flam. Liq. 2 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 Resp. Sens. 1 Resp. Sens. 1,1A,1B Skin Sens. 1 Skin Sens. 1 Skin Carc. 2	Flammable gas, Category 1 Aerosol, Category 1 Gases under pressure (Liquefied gas) Flammable liquid, Category 2 Acute toxicity (inhalation), Category 4 Skin irritation, Category 2 Eye irritation, Category 2 Respiratory Sensitisation, Category 1 Respiratory Sensitisation, Category 1,1A,1B Skin Sensitisation, Category 1 Skin Sensitisation, Category 1,1A,1B Carcinogenicity, Category 2					

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
2.3/1	On basis of test data
3.2/2	Calculation method
3.3/2	Calculation method
3.4.1/1	Calculation method
3.4.2/1	Calculation method
3.6/2	Calculation method
3.8/3	Calculation method
3.9/2	Calculation method

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

 ${\sf SAX's\ DANGEROUS\ PROPERTIES\ OF\ INDUSTRIAL\ MATERIALS\ -\ Eight\ Edition\ -\ Van\ Nostrand\ Reinold}$

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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.

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WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- 2. HAZARDS IDENTIFICATION
- 5. FIRE-FIGHTING MEASURES
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS
- 15. REGULATORY INFORMATION

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