Safety Data Sheet PRIMER SN /B

Safety Data Sheet dated: 14/06/2022 - version 5



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

1.1. Product identifier

Mixture identification:

Trade name: PRIMER SN /B Trade code: 900216 UFI: 3Q90-40HD-800P-ENVH

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

Recommended use: Hardener for epoxy products

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)

Acute Tox. 4 Harmful if swallowed.

Skin Corr. 1B Causes severe skin burns and eye damage.

Eye Dam. 1 Causes serious eye damage.

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

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

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



Danger

Hazard statements:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P261 Avoid breathing mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

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P310 Immediately call a POISON CENTER.

Special Provisions:

EUH208 Contains N-(2-AMINOETHYL)-1,3-PROPANEDIAMINE. May produce an allergic reaction.

Contains:

formaldehyde, polymer with benzenamine,

hydrogenated

N,N'-BIS(3-

AMINOPROPYL) ETHYLENEDIAMINE

benzyl alcohol

2,4,6-tris(dimethylaminomethyl)phenol

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: PRIMER SN /B

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

Concentra tion (% w/w)	Name	Ident. Numb.	Classification	Registration Number
≥25 - <50 %	benzyl alcohol	CAS:100-51-6 EC:202-859-9 Index:603-057- 00-5	Acute Tox. 4, H332; Acute Tox. 4, H302; Eye Irrit. 2, H319	01-2119492630-38-XXXX
≥25 - <50 %	formaldehyde, polymer with benzenamine, hydrogenated	CAS:135108-88- 2 EC:603-894-6	Acute Tox. 3, H301; Eye Dam. 1, H318; STOT RE 2, H373; Aquatic Chronic 3, H412; Skin Corr. 1C, H314; Skin Sens. 1, H317	01-2119983522-33
≥5 - <10 %	N,N'-BIS(3- AMINOPROPYL)ETHYLENEDIAMINE		Acute Tox. 4, H302; Acute Tox. 3, H311; Skin Corr. 1B, H314; Skin Sens. 1A, H317	01-2119976331-37
≥5 - <10 %	2,4,6- tris(dimethylaminomethyl)phenol	CAS:90-72-2 EC:202-013-9 Index:603-069- 00-0	Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302	01-2119560597-27-XXXX
≥0.49 - <1 %	N-(2-AMINOETHYL)-1,3- PROPANEDIAMINE	CAS:13531-52-7 EC:236-882-0	Acute Tox. 4, H302; Skin Corr. 1A, H314; Skin Sens. 1A, H317; Acute Tox. 2, H310	01-2120097861-45

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

 $Immediately\ take\ of f\ all\ contaminated\ clothing.$

OBTAIN IMMEDIATE MEDICAL ATTENTION.

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:

Give nothing to eat or drink.

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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).

Treatment:

(see paragraph 4.1)

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

Use suitable breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

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

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

List of components with OEL value

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	OEL Type	Cour	ntry	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm
benzyl alcohol CAS: 100-51-6	National	FINL	AND		45	10	9,2	PP
	National	POLA	ND		240			
	DFG	GERN	1ANY	С			44	10
	National	GERN	YANY		22	5		
	NDS	POLA	ND		240			
	National		CH IBLIC		40			
	National	LATV	IA		5			
	National	CZEC REPU		С			80	
	National	BULG	SARIA		5,0			
	National	LITH	UANIA		5			
	National	SLOV	/ENIA		22	5	44	10
Predicted No Effect Cor								
Trealeted No Effect cor	PNEC	_	xposure l		Exposure	Frequen	cy Remark	r
	Limit	_	Aposui e i	10010	-хроош.		cy itemaii	•
benzyl alcohol CAS: 100-51-6	1 mg/l	Fi	resh Wate	r				
	0,1 mg/l	М	larine wate	er				
	5,27 mg		reshwater ediments					
	0,527 mg/kg		larine wate ediments	er				
	39 mg/l		licroorgani ewage trea					
	0,45 mg	/ka S	oil					
	2,3 mg/l		o ntermitten	t release				
formaldehyde, polymer	, 5.		larine wate					
with benzenamine, hydrogenated CAS: 135108-88-2	, - J,	S	ediments					
	1,8 mg/l	ka S	oil					
	1,9 mg/l	М	licroorgani					
		S	ewage trea	atments				
	15 mg/k		reshwater ediments					
	0,015 m	g/l Fi	resh Wate	r				
	0,002 m	g/I M	larine wate	er				
Derived No Effect Level	. (DNEL)							

Note

	Worker Worke Industr Profes y ional		Exposure Route	Exposure Frequency Remark
benzyl alcohol CAS: 100-51-6	•	20 mg/kg	Human Oral	Short Term, systemic effects
		4 mg/kg	Human Oral	Long Term, systemic effects
	110 mg/m3	27 mg/m3	Human Inhalation	Short Term, systemic effects
	22 mg/m3	5,4 mg/m3	Human Inhalation	Long Term, systemic effects
	40 mg/kg	20 mg/kg	Human Dermal	Short Term, systemic effects

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8 4 Human Dermal Long Term, systemic mg/kg mg/kg effects

formaldehyde, polymer with benzenamine, hydrogenated CAS: 135108-88-2 2 Human Dermal Long Term, systemic mg/kg effects

2 Human Inhalation Short Term, systemic effects

0,2 Human Inhalation Long Term, systemic

mg/m3 effects

6 Human Dermal Short Term, systemic

mg/kg effects

0,31 Human Inhalation Long Term, systemic

mg/m3 riuman filinalation Long r

(dimethylaminomethyl)

phenol CAS: 90-72-2

2,4,6-

tris

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

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: liquid Color: Amber Odour: ammonia

Odour threshold: Not available

Melting point / freezing point: 0 °C (32 °F)

Initial boiling point and boiling range: 200 °C (392 °F)

Flammability: N.A.

Upper/lower flammability or explosive limits: Not available

Flash point: 100 °C (212 °F)

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

pH: 11.00

Viscosity: 220.00 cPs

Kinematic viscosity: Not available Solubility in water: partly soluble

Solubility in oil: soluble

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

Vapour pressure: Not available

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Relative density: 1.02 g/cm3 Vapour density: Not available **Particle characteristics:** Particle size: Not available

9.2. Other information

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

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Toxicological information of the mixture:

a) acute toxicity The product is classified: Acute Tox. 4(H302)

ATEmix - Oral: 545.848 mg/kg bw

b) skin corrosion/irritation The product is classified: Skin Corr. 1B(H314) c) serious eye damage/irritation The product is classified: Eye Dam. 1(H318) d) respiratory or skin sensitisation The product is classified: Skin Sens. 1A(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 Not classified

Based on available data, the classification criteria are not met

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:

benzyl alcohol a) acute toxicity LC50 Inhalation Rat = 11, mg/l 4h

LD50 Oral Rat = 1230, mg/kg

g) reproductive toxicity NOAEL Rat = 1072, mg/m3

formaldehyde, polymer with benzenamine, hydrogenated

a) acute toxicity

LD50 Oral Rat = 300, mg/kg

LD50 Skin Rabbit > 2000, mg/kg

i) STOT-repeated

exposure

No Observed Adverse Effect Level Oral Rat = 15,

mg/kg

N,N'-BIS(3-AMINOPROPYL) ETHYLENEDIAMINE a) acute toxicity

LD50 Oral Rat = 1200, mg/kg

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LD50 Skin Rabbit = 300, mg/kg LD50 Oral Rat = 1200 mg/kg

2,4,6a) acute toxicity

tris

(dimethylaminomethyl)

phenol

LD50 Oral Rat = 2169 mg/kg

LD50 Skin Rat > 1, ml/kg

N-(2-AMINOETHYL)-1,3- a) acute toxicity

PROPANEDIAMINE

LD50 Skin Rabbit = 184, 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

List of components with eco-toxicological properties				
Component	Ident. Numb.	Ecotox Infos		
benzyl alcohol	CAS: 100-51-6 - EINECS: 202- 859-9 - INDEX: 603-057-00-5	a) Aquatic acute toxicity: EC50 Daphnia = 230 mg/L 48		
		a) Aquatic acute toxicity: LC50 Fish = 770 mg/L 1		
		a) Aquatic acute toxicity: EC50 Algae = 770 mg/L 72		
		a) Aquatic acute toxicity: LC50 Fish = 460 mg/L 96		
		a) Aquatic acute toxicity: LC50 Fish Pimephales promelas = 460 mg/L 96h EPA		
formaldehyde, polymer with benzenamine, hydrogenated	CAS: 135108- 88-2 - EINECS: 603-894-6	a) Aquatic acute toxicity: LC50 Fish Poecilia reticulata = 63 mg/L 96h ECH		
		a) Aquatic acute toxicity: EC50 Daphnia = 15,4 mg/L 48h		
		a) Aquatic acute toxicity: EC50 Algae = 43,94 mg/L 72h		
2,4,6-	CAS: 90-72-2 -	a) Aquatic acute toxicity: LC50 Fish = 175 mg/L 96h		

tris(dimethylaminomethyl)phenol EINECS: 202-

013-9 - INDEX: 603-069-00-0

a) Aquatic acute toxicity: EC50 Algae = 46,7 mg/L 72h a) Aquatic acute toxicity: NOEC Algae = 25,1 mg/L 72h

N-(2-AMINOETHYL)-1,3-**PROPANEDIAMINE**

7 - EINECS: 236-882-0

CAS: 13531-52- a) Aquatic acute toxicity: EC50 Daphnia = 25,93 mg/L 48h

12.2. Persistence and degradability

Component Persitence/Degradability:

formaldehyde, polymer with benzenamine, hydrogenated Non-readily biodegradable

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

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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

2735

14.2. UN proper shipping name

ADR-Shipping Name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (cycloaliphatic amines) IATA-Technical name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (cycloaliphatic amines) IMDG-Technical name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (cycloaliphatic amines)

14.3. Transport hazard class(es)

ADR-Class: 8, II IATA-Class: 8, II IMDG-Class: 8, II

14.4. Packing group

ADR-Packing Group: II IATA-Packing group: II IMDG-Packing group: II

14.5. Environmental hazards

Marine pollutant: No Environmental Pollutant: No IMDG-EMS: F-A, S-B

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 8

ADR-Hazard identification number: NA

ADR-Special Provisions: 274

ADR-Transport category (Tunnel restriction code): 2 (E)

 $\mathsf{Air}\;(\;\mathsf{IATA}\;)\;:\;$

IATA-Passenger Aircraft: 851 IATA-Cargo Aircraft: 855

IATA-Label: 8

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IATA-Subsidiary hazards: -

IATA-Erg: 8L

IATA-Special Provisioning: A3 A803

Sea (IMDG):

IMDG-Stowage Code: Category A IMDG-Stowage Note: SG35 IMDG-Subsidiary hazards: - IMDG-Special Provisioning: 274

IMDG-EMS: F-A, S-B

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): 60 (A+B) q/I

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):

None

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

Restrictions related to the product: 3

Restrictions related to the substances contained: 75

SVHC Substances:

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

German Water Hazard Class (WGK)

Class 3: extremely hazardous.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Code	Description
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

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H373 H412	May cause damage to organs (kidneys) through prolonged or repeated exposure if swallowed. Harmful to aquatic life with long lasting effects.			
Code	Hazard class and hazard category	Description		
3.1/2/Dermal	Acute Tox. 2	Acute toxicity (dermal), Category 2		
3.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3		
3.1/3/Oral	Acute Tox. 3	Acute toxicity (oral), Category 3		
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4		
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4		
3.2/1A	Skin Corr. 1A	Skin corrosion, Category 1A		
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B		
3.2/1C	Skin Corr. 1C	Skin corrosion, Category 1C		
3.3/1	Eye Dam. 1	Serious eye damage, Category 1		
3.3/2	Eye Irrit. 2	Eye irritation, Category 2		
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1		
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A		
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2		
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3		

May cause damage to organs through prolonged or repeated exposure.

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

(EC) Nr. 1272/2008	Classification procedur
3.1/4/Oral	Calculation method
3.2/1B	Calculation method
3.3/1	Calculation method
3.4.2/1A	Calculation method
3.9/2	Calculation method
4.1/C3	Calculation method

Causes serious eye irritation.

Harmful if inhaled.

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:

H319

H332 H373

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

 ${\tt ADR: European \ Agreement \ concerning \ the \ International \ Carriage \ of \ Dangerous \ Goods \ by \ Road.}$

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

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CSR: Chemical Safety Report
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive DSD: Dangerous Substances Directive EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

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

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

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

IC50: half maximal inhibitory concentration ICAO: International Civil Aviation Organization.

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

IMDG: International Maritime Code for Dangerous Goods. INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

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

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

LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

* Sheet model entirely changed in compliance to regulatory update.

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