

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

1.1. Product identifier

Mixture identification:

Trade name: PRIMER EPW 1070 /A

Trade code: 9001923

Registration Number N/A

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

Recommended use: Hardener for epoxy products

Uses advised against: N.A.

1.3. Details of the supplier of the safety data sheet

Company: TECNOPOL SISTEMAS

c/Finlàndia, 33

08520 Les Franqueses del Vallès

Barcelona (Spain)

Responsible: info@tecnopol.es

1.4. Emergency telephone number

(National Institute of Toxicology) 0034 915 62 04 20

TECNOPOL SISTEMAS

Phone: +34 935 682 111 (office hours)

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

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

Skin Irrit. 2 Causes skin irritation.

Eye Dam. 1 Causes serious eye damage.

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:

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements:

P264 Wash hands thoroughly after handling.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

Contains:

linseed oil, polymer w/bis-A,bis-A diglycidyl ether, diethylenetriamine, formaldehyde, glycidyl Ph ether, pentaethylenehexamine

3,6,9,12-tetra-
azatetradecamethylenediamine;
pentaethylenehexamine

3,6,9-triazaundecamethylenediamine;
tetraethylenepentamine

2,2'-iminodiethylamine; diethylenetriamine

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

None

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: PRIMER EPW 1070 /A

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

Concentration (% w/w)	Name	Ident. Numb.	Classification	Registration Number
≥10 - <20 %	linseed oil, polymer w/bis-A,bis-A diglycidyl ether, diethylenetriamine, formaldehyde, glycidyl Ph ether, pentaethylenehexamine	CAS:68915-81-1	Skin Irrit. 2, H315; Eye Dam. 1, H318	
≥0.1 - <0.25 %	3,6,9,12-tetra-azatetradecamethylenediamine; pentaethylenehexamine	CAS:4067-16-7 EC:223-775-9 Index:612-064-00-2	Skin Corr. 1B, H314; Skin Sens. 1,1A,1B, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
≥0.1 - <0.25 %	acetic acid ... %	CAS:64-19-7 EC:200-580-7 Index:607-002-00-6	Flam. Liq. 3, H226; Skin Corr. 1A, H314	01-2119475328-30-xxxx
≥0.1 - <0.25 %	3,6,9-triazaundecamethylenediamine; tetraethylenepentamine	CAS:112-57-2 EC:203-986-2 Index:612-060-00-0	Skin Corr. 1B, H314; Skin Sens. 1,1A,1B, H317; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312	
≥0.1 - <0.25 %	2,2'-iminodiethylamine; diethylenetriamine	CAS:111-40-0 EC:203-865-4 Index:612-058-00-X	Skin Corr. 1B, H314; Skin Sens. 1,1A,1B, H317; Acute Tox. 4, H302; Acute Tox. 4, H312	01-2119473793-27-0005
≥0.05 - <0.1 %	MORFOLINA	CAS:110-91-8 EC:203-815-1	Flam. Liq. 3, H226; Acute Tox. 3, H311; Acute Tox. 3, H331; Acute Tox. 4, H302; Skin Corr. 1A, H314	01-2119496057-30-XXXX
<0.0015 %	2-METOSSIETANOLO	CAS:109-86-4 EC:203-713-7	Flam. Liq. 3, H226; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Repr. 1B, H360	

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.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

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

In case of Inhalation:

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

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
acetic acid ... %	National	SWEDEN		13	5	25	10		SWEDEN, Short-tem value, 15 minutes average value
	National	FINLAND		13	5	25	10		
	National	NORWAY		25	10				
	EU	None		25	10				
	National	NORWAY		25	10	50	20		
	ACGIH	None			10		15		URT and eye irr, pulm func
	DFG	GERMANY	C				50	20	
	ACGIH				10		15		eye and upper respiratory tract irritation;pulmonary function
	National	SWEDEN		13	5				
	National	FRANCE					25	10	
	National	SPAIN		25	10	50	20		
	National	GREECE		25	10	37	15		
	National	DENMARK		25	10				
	National	GERMANY		25	10				
	National	PORTUGAL		25	10			15	
	National	NORWAY		25	10	37,5	15		
	National	BELGIUM		25	10	38	15		
	NDS	POLAND		25					
	NDSCh	POLAND					50		
	CHE	SWITZERLAND					50	20	
	NDS	NETHERLANDS		25			50		
	National	CZECH REPUBLIC		25					
	National	HUNGARY		25			50		
	Malaysi a OEL	MALAYSIA		25	10				
	National	ESTONIA		25	10	25	10		
	National	LATVIA		25	10	50	20		
	National	CZECH REPUBLIC	C				50		
	National	SLOVAKIA	C				50		
	National	SLOVAKIA		25	10				
	National	SLOVENIA		25	10				
National	UNITED KINGDOM		25	10	50	20			
National	BULGARIA		25	10	50	20			
National	ROMANIA		25	10	50	20			
TUR	TURKEY		25	10					
National	LITHUANIA		25	10	50	20			
National	CROATIA		25	10	50	20			
EU			25	10				Indicative	
2,2'-iminodiethylamine; diethylenetriamine	SUVA	None		4	1				
	NDS	None		4					
	National	SWEDEN		4,5	1	10	2		SWEDEN, Short-term value, 15 minutes average value

	National FINLAND		4,3	1	13	3		FINLAND, hud
	National NORWAY		4	1				NORWAY, HA
	NDSch None		12					
	ACGIH None			1				Skin - URT and eye irr
	National NORWAY		4	1	8	2		
	ACGIH			1				Skin - potential significant contribution to overall exposure by the cutaneous route;eye and upper respiratory tract irritation
	National SWEDEN		4,5	1				
	National FRANCE		4	1				
	National SPAIN		4,3	1				
	National GREECE		4	1				
	National DENMARK		4	1				
	National FINLAND		4,3	1	13	3		
	National PORTUGAL			1				
	National BELGIUM		4,3	1				
	NDS POLAND		4					
	NDSch POLAND				12			
	National CZECH REPUBLIC		4					
	National HUNGARY		4		4			
	Malaysi a OEL MALAYSIA		4,2	1				Skin notation
	National ESTONIA		4,5	1	10	2		
	National CZECH REPUBLIC	C			8			
	National UNITED KINGDOM		4,3	1	12,9	3		
	National BULGARIA		4,0					
	National ROMANIA		2	0,5	4	1		
	National LITHUANIA		4,5	1	10	2		
	National CROATIA		4,3	1				
MORFOLINA	DFG GERMANY	C			72	20		
	ACGIH			20				A4 - Not Classifiable as a Human Carcinogen;Skin - potential significant contribution to overall exposure by the cutaneous route;eye damage;upper respiratory tract irritation
	National SWEDEN		35	10				
	EU		36	10	72	20	Indicative	
	National FRANCE		36	10	72	20		
	National SPAIN		36	10	72	20		
	National GREECE		36	10	72	20		
	National DENMARK		36	10				
	National FINLAND		36	10	72	20		
	National GERMANY		36	10				
	National PORTUGAL		36	10	72	20		
	National NORWAY		36	10	54	15		
	National BELGIUM		36	10	72	20		
	NDS POLAND		36					
	NDSch POLAND				72			
	CHE SWITZERLAND				72	20		

	NDS	NETHERLANDS		36		72		
	National	CZECH REPUBLIC		35				
	National	HUNGARY		36		72		
	Malaysi a OEL	MALAYSIA		71	20			Skin notation
	National	ESTONIA		36	10	72	20	
	National	LATVIA		36	10	72	20	
	National	CZECH REPUBLIC	C			70		
	National	SLOVAKIA	C			72		
	National	SLOVAKIA		36	10			
	National	SLOVENIA		36	10	72	20	
	National	UNITED KINGDOM		36	10	72	20	
	National	BULGARIA		36,0	10	72,0	20	
	National	ROMANIA		36	10	72	20	
	TUR	TURKEY		36	10	72	20	
	National	LITHUANIA		36	10	72	20	
	National	CROATIA		36	10	72	20	
2-METOSSJETANOLO	DFG	GERMANY	C			25,6	8	
	ACGIH				0,1			Skin - potential significant contribution to overall exposure by the cutaneous route;hematologic and reproductive effects;
	National	FRANCE		3,2	1			
	National	SPAIN		3	1			
	National	GREECE			1			
	National	DENMARK			1			
	National	FINLAND		1,6	0,5			
	National	GERMANY		3,2	1			
	National	PORTUGAL			1			
	National	NORWAY		3,1	1	6,2	2	
	National	BELGIUM		0,3	0,1			
	NDS	POLAND		3				
	CHE	SWITZERLAND				25,6	8	
	NDS	NETHERLANDS		0,5				
	National	CZECH REPUBLIC		3				
	National	HUNGARY		3,16				
	Malaysi a OEL	MALAYSIA		16	5			Skin notation;
	National	ESTONIA		16	5	30	10	
	National	LATVIA			1			
	National	CZECH REPUBLIC	C			30		
	National	SLOVAKIA	C			128		
	National	SLOVAKIA		16	5			
	National	SLOVENIA		3	1			
	National	UNITED KINGDOM		3	1	9	3	
	National	BULGARIA			1			
	National	ROMANIA		3,2	1			
	TUR	TURKEY			1			

National LITHUANIA		1	30	10		
National CROATIA		1				
EU		1			Indicative	Possibility of significant uptake through the skin;
ACGIH		0,1				Skin - potential significant contribution to overall exposure by the cutaneous route;hematologic and reproductive effects
National SWEDEN		1				
Malaysi a OEL	MALAYSIA	16	5			Skin notation
National ESTONIA		1				
National CZECH REPUBLIC	C			6		
National SLOVAKIA		5				
EU		1			Indicative	Possibility of significant uptake through the skin

Biological Exposure Index

CAS-No.	Component	Value	UoM	Medium	Biological Indicator	Sampling Period
109-86-4	2-METOSSIIETANOL O	1	MGGCREAT	Urine	Acid 2-Methoxyacetic	End of turn; End of working week

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency	Remark
acetic acid ... %	64-19-7	0,3058 mg/l	Marine water		
		30,58 mg/l	Intermittent release		
		1,136 mg/kg	Marine water sediments		
		0,478 mg/kg	Soil		
		3,058 mg/l	Fresh Water		
		11,36 mg/kg	Freshwater sediments		
		0,00068 mg/l	Fresh Water		
3,6,9-triazaundecamethylenedia mine; tetraethylenepentamine	112-57-2	0,00068 mg/l	Marine water		
		3,34 mg/kg	Freshwater sediments		
		0,343 mg/kg	Marine water sediments		
		0,683 mg/kg	Soil		

Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industrial	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
acetic acid ... %	64-19-7	25 mg/m3			Human Inhalation	Short Term, local effects	
		25 mg/m3			Human Inhalation	Long Term, local effects	

3,6,9-triazaundecamethylenedia mine; tetraethylenepentamine	112-57-2	25 mg/m ³	Human Inhalation	Short Term, local effects
		25 mg/m ³	Human Inhalation	Long Term, local effects
		10 mg/kg	Human Dermal	Short Term, systemic effects
		0,74 mg/kg	Human Dermal	Long Term, systemic effects
		0,32 mg/kg	Human Dermal	Long Term, systemic effects
		0,53 mg/kg	Human Oral	Long Term, systemic effects
		0,00129 mg/l	Human Inhalation	Long Term, systemic effects
		0,00038 mg/l	Human Inhalation	Long Term, systemic effects

8.2. Exposure controls

Eye protection:

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

Protection for skin:

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

Protection for hands:

Suitable materials for safety gloves; EN ISO 374:

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

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

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

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

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

Respiratory protection:

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

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: Liquid

Appearance and colour: viscous liquid Yellow

Odour: Like: Ammonia

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: $>200\text{ }^{\circ}\text{C}$ (392 $^{\circ}\text{F}$)

Flash point: $>100\text{ }^{\circ}\text{C}$ (212 $^{\circ}\text{F}$)

Evaporation rate: N.A.

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

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.05 g/cm³

Solubility in water: soluble

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

Auto-ignition temperature: N.A. - No explosive or spontaneous ignition in contact with air at room temperature

Decomposition temperature: N.A.

Viscosity: 10,000.00 cPs

Explosive properties: N.A. - No components with explosive properties

Oxidizing properties: N.A.
Solid/gas flammability: N.A.

- No component with oxidizing properties

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

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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:

3,6,9,12-tetra- azatetradecamethylenedia- mine; pentactylenehexamine	a) acute toxicity	LD50 Oral Rat = 1600 mg/kg
acetic acid ... %	a) acute toxicity	LD50 Oral Rat 3310 mg/kg LC50 Inhalation Rat > 40000 mg/m ³ 4h LD50 Skin Rabbit = 1060 mg/kg LC50 Inhalation Rat = 11,4 mg/l 4h LD50 Oral Rat = 3310 mg/kg
3,6,9- triazoundecamethylenedia- mine; tetraethylenepentamine	a) acute toxicity	LD50 Oral Rat = 3990 mg/kg LD50 Skin Rabbit = 660 mg/kg LD50 Skin Rabbit = 660 µL/kg LD50 Oral Rat = 3990 mg/kg
	b) skin corrosion/irritation	Skin Sensitization Rabbit Positive
2,2'-iminodiethylamine; diethylenetriamine	a) acute toxicity	LD50 Skin Rabbit = mg/kg LC50 Inhalation Rat = 1,8 mg/l LD50 Oral Rat = mg/kg LD50 Skin Rabbit = 672 mg/kg LC50 Inhalation Rat = 70 mg/l 4h LD50 Oral Rat = 1080 mg/kg
MORFOLINA	a) acute toxicity	LD50 Skin Rabbit 310 mg/kg LC50 Inhalation Rat > 8000 ppm 8h LD50 Oral Rat = 1050 mg/kg

2-METOSSJETANOLO a) acute toxicity LD50 Skin Rabbit = 1280 mg/kg
 LC50 Inhalation Rat = 1478 ppm 7h
 LD50 Oral Rat = 2370 mg/kg

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 components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
acetic acid ... %	CAS: 64-19-7 - EINECS: 200-580-7 - INDEX: 607-002-00-6	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 79 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 75 mg/L 96h EPA
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 65 mg/L 48h EPA
3,6,9-triazaundecamethylenediamine; tetraethylenepentamine	CAS: 112-57-2 - EINECS: 203-986-2 - INDEX: 612-060-00-0	a) Aquatic acute toxicity : LC50 Fish = 310 mg/L 96
		a) Aquatic acute toxicity : EC50 Daphnia = 24,1 mg/L 48
		a) Aquatic acute toxicity : EC50 Algae > 2,1 mg/L 72
		a) Aquatic acute toxicity : LC50 Fish Poecilia reticulata = 420 mg/L 96h IUCLID
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 24,1 mg/L 48h IUCLID
		a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 2,1 mg/L 72h IUCLID
2,2'-iminodiethylamine; diethylenetriamine	CAS: 111-40-0 - EINECS: 203-865-4 - INDEX: 612-058-00-X	a) Aquatic acute toxicity : LC50 Fish Poecilia reticulata = 248 mg/L 96h IUCLID
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 16 mg/L 48h IUCLID
		a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 1164 mg/L 72h IUCLID
		a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 592 mg/L 96h IUCLID
		a) Aquatic acute toxicity : LC50 Fish Poecilia reticulata = 1014 mg/L 96h EPA
		a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 345,6 mg/L 96h EPA

MORFOLINA

CAS: 110-91-8 -
EINECS: 203-815-1

a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 350 mg/L 96h EPA

a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 375 mg/L 96h EPA

a) Aquatic acute toxicity : LC50 Fish Brachydanio rerio > 1000 mg/L 96h IUCLID

a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 28 mg/L 96h EPA

2-METOSSIIETANOLO

CAS: 109-86-4 -
EINECS: 203-713-7

a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 10000 mg/L 96h EPA

a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 9650 mg/L 96h IUCLID

a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 16000 mg/L 96h IUCLID

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

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

N.A.

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

N/A

14.2. UN proper shipping name

ADR-Shipping Name: N/A

IATA-Technical name: N/A

IMDG-Technical name: N/A

14.3. Transport hazard class(es)

ADR-Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

14.4. Packing group

ADR-Packing Group: N/A

IATA-Packing group: N/A

IMDG-Packing group: N/A

14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

14.6. Special precautions for user

Road and Rail (ADR-RID) :

ADR-Label: N/A
ADR-Hazard identification number: N/A
ADR-Special Provisions: N/A
ADR-Transport category (Tunnel restriction code): N/A

Air (IATA) :

IATA-Passenger Aircraft: N/A
IATA-Cargo Aircraft: N/A
IATA-Label: N/A
IATA-Subsidiary hazards: N/A
IATA-Erg: N/A
IATA-Special Provisioning: N/A

Sea (IMDG) :

IMDG-Stowage Code: N/A
IMDG-Stowage Note: N/A
IMDG-Subsidiary hazards: N/A
IMDG-Special Provisioning: N/A
IMDG-Page: N/A
IMDG-Label: N/A
IMDG-EMS: N/A
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.

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) n. 2017/776 (ATP 10 CLP)

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

N.A.

German Water Hazard Class (WGK)

N.A.

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: None

SVHC Substances:

No data available

15.2. Chemical safety assessment

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

SECTION 16: Other information

Code	Description
H226	Flammable liquid and vapour.

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H360	May damage fertility or the unborn child if inhaled, in contact with skin and if swallowed.
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.

Code	Hazard class and hazard category	Description
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3
3.1/3/Inhal	Acute Tox. 3	Acute toxicity (inhalation), Category 3
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.1/4/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
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.4.2/1-1A-1B	Skin Sens. 1,1A,1B	Skin Sensitisation, Category 1,1A,1B
3.7/1B	Repr. 1B	Reproductive toxicity, Category 1B
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

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
3.2/2	Calculation method
3.3/1	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

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic
COD: Chemical Oxygen Demand
COV: Volatile Organic Compound
CSA: Chemical Safety Assessment
CSR: Chemical Safety Report
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level.
DPD: Dangerous Preparations Directive
DSD: Dangerous Substances Directive
EC50: Half Maximal Effective Concentration
ECHA: European Chemicals Agency
EINECS: European Inventory of Existing Commercial Chemical Substances.
ES: Exposure Scenario
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
IC50: half maximal inhibitory concentration
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- 2. HAZARDS IDENTIFICATION

Safety Data Sheet
PRIMER EPW 1070 /B

Safety Data Sheet dated: 04/02/2020 - version 3



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

1.1. Product identifier

Mixture identification:

Trade name: PRIMER EPW 1070 /B

Trade code: 9001924

Registration Number N/A

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

Recommended use: Epoxy resins

Uses advised against: N.A.

1.3. Details of the supplier of the safety data sheet

Company: TECNOPOL SISTEMAS

c/Finlàndia, 33

08520 Les Franqueses del Vallès

Barcelona (Spain)

Responsable: info@tecnopol.es

1.4. Emergency telephone number

(National Institute of Toxicology) 0034 915 62 04 20

TECNOPOL SISTEMAS

Phone: +34 935 682 111 (office hours)

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

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

Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2	Causes serious eye irritation.
Skin Sens. 1A	May cause an allergic skin reaction.
Aquatic Chronic 2	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



Warning

Hazard statements:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Special Provisions:

EUH208	Contains reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700). May produce an allergic reaction.
EUH208	Contains oxirane, mono[(C12-14-alkyloxy)methyl] derivs.. May produce an allergic reaction.
EUH205	Contains epoxy constituents. May produce an allergic reaction.

Contains:

bisphenol F - epoxy resin

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

None

2.3. Other hazards

No PBT/vPvB Ingredients are present

Other Hazards: No other hazards

This preparation contains low molecular weight epoxy resins. Cross sensitisation to other epoxies is possible. Avoid also exposure to spray mist and vapour.

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: PRIMER EPW 1070 /B

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

Concentration (% w/w)	Name	Ident. Numb.	Classification	Registration Number
≥50 - <75 %	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	CAS:25068-38-6 EC:500-033-5 Index:603-074-00-8	Eye Irrit. 2, H319; Skin Irrit. 2, H315; Skin Sens. 1,1A,1B, H317; Aquatic Chronic 2, H411	01-2119456619-26-xxxx
≥10 - <20 %	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS:68609-97-2 EC:271-846-8 Index:603-103-00-4	Skin Irrit. 2, H315; Skin Sens. 1, H317	01-2119485289-22-XXXX
≥10 - <20 %	bisphenol F - epoxy resin	CAS:9003-36-5 EC:500-006-8	Skin Irrit. 2, H315; Skin Sens. 1A, H317; Aquatic Chronic 2, H411	01-2119454392-40-XXXX

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

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

In case of Inhalation:

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

Component	OEL Type	Country	Ceiling	Long Term mg/m ³	Long Term ppm	Short Term mg/m ³	Short Term ppm	Behaviour Note
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	National	BULGARIA		1,0				

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency	Remark
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	25068-38-6	0,006 mg/l	Fresh Water		
		0,0006 mg/l	Marine water		

		0,0627 mg/kg	Freshwater sediments
		0,00627 mg/kg	Marine water sediments
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	0,00072 mg/l	Marine water
		0,0072 mg/l	Fresh Water
		66,77 mg/kg	Freshwater sediments
		6,677 mg/kg	Marine water sediments
		80,12 mg/kg	Soil
		10 mg/l	Microorganisms in sewage treatments
bisphenol F - epoxy resin	9003-36-5	10 mg/l	Microorganisms in sewage treatments
		0,003 mg/l	Fresh Water
		0,294 mg/kg	Freshwater sediments
		0,0003 mg/l	Marine water
		0,0294 mg/kg	Marine water sediments
		0,237 mg/kg	Soil

Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industrial	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark	
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	25068-38-6	8,3 mg/kg			Human Dermal	Short Term, systemic effects		
		12,25 mg/m3			Human Inhalation	Short Term, systemic effects		
		8,3 mg/kg			Human Dermal	Long Term, systemic effects		
		12,25 mg/m3			Human Inhalation	Long Term, systemic effects		
				3,571 mg/kg		Human Dermal	Short Term, systemic effects	
				0,75 mg/kg		Human Oral	Short Term, systemic effects	
				3,571 mg/kg		Human Dermal	Long Term, systemic effects	
				0,75 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:

No special precaution must be adopted for normal use.

Protection for hands:

Suitable materials for safety gloves; EN ISO 374:

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

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

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

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

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

Respiratory protection:

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

In case of insufficient ventilation use mask with ABEKP filters (EN 14387).

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: Liquid

Appearance and colour: viscous liquid Blue

Odour: Characteristic

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: $>100\text{ }^{\circ}\text{C}$ (212 $^{\circ}\text{F}$)

Flash point: $\geq 130\text{ }^{\circ}\text{C}$ (266 $^{\circ}\text{F}$)

Evaporation rate: N.A.

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

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.100 g/cm³

Solubility in water: N.A.

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

Auto-ignition temperature: N.A. - No explosive or spontaneous ignition in contact with air at room temperature

Decomposition temperature: N.A.

Viscosity: 850.00 PA-s

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

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	a) acute toxicity	LD50 Oral Rat > 15000 mg/kg
		LD50 Skin Rabbit > 23000 mg/kg
		LD50 Oral Rat = 11400 mg/kg
	i) STOT-repeated exposure	NOAEL Oral Rat = 50 mg/kg
		NOAEL Skin Rat = 100 mg/kg
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg
		LD50 Skin Rabbit > 3987 mg/kg
		LD50 Oral Rat = 17100 mg/kg
bisphenol F - epoxy resin	a) acute toxicity	LD50 Oral Rat > 10000 mg/kg
		LD50 Skin Rat > 2000 mg/kg
		LD50 Oral Rat > 2 g/kg
	i) STOT-repeated exposure	NOAEL Oral = 250 mg/kg

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:

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

List of components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	CAS: 25068-38-6 - EINECS: 500-033-5	a) Aquatic acute toxicity : LC50 Fish > 2 mg/L 96
	- INDEX: 603-074-00-8	a) Aquatic acute toxicity : EC50 Daphnia > 1,8 mg/L 48 a) Aquatic acute toxicity : LC50 Algae > 11 mg/L 72 a) Aquatic acute toxicity : LC50 Daphnia = 1,3 mg/L 96 b) Aquatic chronic toxicity : NOEC Daphnia = 0,3 mg/L

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

CAS: 68609-97-2 -
EINECS: 271-846-8
- INDEX: 603-103-00-4

a) Aquatic acute toxicity : EC50 Daphnia = 7,20000 mg/L 48

a) Aquatic acute toxicity : EC50 Algae = 844,00000 mg/L 72

a) Aquatic acute toxicity : LC50 Fish > 1800,00000 mg/L 96

bisphenol F - epoxy resin

CAS: 9003-36-5 -
EINECS: 500-006-8

a) Aquatic acute toxicity : EC50 Fish = 2,54 mg/L 96

a) Aquatic acute toxicity : EC50 Daphnia = 2,55 mg/L 48

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

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

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. 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

3082

14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3. Transport hazard class(es)

ADR-Class: 9

IATA-Class: 9

IMDG-Class: 9

14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

14.5. Environmental hazards

Marine pollutant: Yes

Environmental Pollutant: Yes

14.6. Special precautions for user

Road and Rail (ADR-RID) :

ADR-Label: 9

ADR-Hazard identification number: 90

ADR-Special Provisions: 274 335 375 601

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

Air (IATA) :

IATA-Passenger Aircraft: 964

IATA-Cargo Aircraft: 964

IATA-Label: 9

IATA-Subsidiary hazards: -

IATA-Erg: 9L

IATA-Special Provisioning: A97 A158 A197

Sea (IMDG) :

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 274 335 969

IMDG-Page: N/A

IMDG-Label: N/A

IMDG-EMS: F-A, S-F

IMDG-MFAG: N/A

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

N.A.

These substances, when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids, or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to provisions of ADR, IMDG and IATA DGR.

SECTION 15: Regulatory information

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

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

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)

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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)

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

Seveso III category

Lower-tier threshold

Upper-tier threshold

according to Annex 1, part 1 (tonnes)

(tonnes)

Products belongs to category E2 200

500

German Water Hazard Class (WGK)

N.A.

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: None

SVHC Substances:

No data available

15.2. Chemical safety assessment

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

SECTION 16: Other information

Code	Description
------	-------------

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1-1A-1B	Skin Sens. 1,1A,1B	Skin Sensitisation, Category 1,1A,1B
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, 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 according to Regulation (EC) Nr. 1272/2008	Classification procedure
3.2/2	Calculation method
3.3/2	Calculation method
3.4.2/1A	Calculation method
4.1/C2	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

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

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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:

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ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

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

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

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

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.