

Safety Data Sheet

ULTRABOND P 902 2 K comp. A

Safety Data Sheet dated: 06/02/2020 - version 4



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

1.1. Product identifier

Mixture identification:

Trade name: ULTRABOND P 902 2 K comp. A

Trade code: 901327

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

Recommended use: Epoxy-polyurethane adhesive

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

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)1684 299 886

phone: +44(0)121 508 6970 - fax: +44(0)121 5086 960

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. 1	May cause an allergic skin reaction.
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



Warning

Hazard statements:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
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/protective clothing/eye protection/face protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.

Special Provisions:

EUH208	Contains oxirane, mono[(C12-14-alkyloxy)methyl] derivs.. May produce an allergic reaction.
EUH205	Contains epoxy constituents. May produce an allergic reaction.

Contains:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)

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: ULTRABOND P 902 2 K comp. A

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

Concentration (% w/w)	Name	Ident. Numb.	Classification	Registration Number	Properties
≥5 - <10 %	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	
≥2.5 - <5 %	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	
≥1 - <2.5 %	dipropyleneglycol methyl ether	CAS:34590-94-8 EC:252-104-2	Substance with a Union workplace exposure limit.	01-2119450011-60-xxxx	
≥1 - <2.5 %	1-methoxy-2-propanol; monopropylene glycol methyl ether	CAS:107-98-2 EC:203-539-1	Flam. Liq. 3, H226; STOT SE 3, H336	01-2119457435-35-XXXX	
≥0.25 - <0.49 %		CAS:84852-15-3 EC:284-325-5 Index:601-053-00-8	Repr. 2, H361fd; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302, M-Chronic:10, M-Acute:10	01-2119510715-45-XXXX	SVHC

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				

dipropyleneglycol methyl ether	SUVA	None		300	50	300	50	
	NDS	None		240				
	National	None		303	50	600	100	
	National	None		300	50	450	75	Short-term value, 15 minutes average value
	National	None		310	50			hud
	National	None		300	50			H
	NDSCh	None		480				
	EU	None		308	50			Skin
	ACGIH	None			100		150	Skin - Eye and URT irr, CNS impair
	DFG	GERMANY	C			310	50	
	ACGIH				100		150	Skin - potential significant contribution to overall exposure by the cutaneous route; CNS impairment; eye and upper respiratory tract irritation
	National	SWEDEN		300	50			
	National	FRANCE		308	50			
	National	SPAIN		308	50			
	National	GREECE		600	100	900	150	
	National	DENMARK		309	50			
	National	FINLAND		310	50			
	National	GERMANY		310	50			
	National	PORTUGAL		308	50		150	
	National	NORWAY		300	50	375	75	
	National	BELGIUM		308	50			
	NDS	POLAND		240				
	NDSCh	POLAND				480		
	CHE	SWITZERLAND				300	50	
	NDS	NETHERLANDS		300				
	National	CZECH REPUBLIC		270				
	National	HUNGARY		308				
Malaysi a OEL	MALAYSIA		606	100			Skin notation	
National	ESTONIA		308	50				
National	LATVIA		308	50				
National	CZECH REPUBLIC	C			550			
National	SLOVAKIA		308	50				
National	SLOVENIA		308	50				
National	UNITED KINGDOM		308	50	924	150		
National	BULGARIA		308,0	50				
National	ROMANIA		308	50				
TUR	TURKEY		308	50				
National	LITHUANIA		308	50	450	75		
National	CROATIA		308	50				
EU			308	50			Indicative Possibility of significant uptake through the skin	
1-methoxy-2-propanol; monopropylene glycol methyl ether	SUVA	None		375	100	568	150	

National SWEDEN		190	50	300	75	SWEDEN, Short-term value, 15 minutes average value
National FINLAND		370	100	560	150	FINLAND, hud
National NORWAY		180	50			NORWAY, H
NDS None		180				
NDSch None		360				
National NORWAY		185	50	370	100	
EU None		375	100	563	150	Skin
ACGIH None			50		100	A4 - Eye and URT irr
DFG GERMANY	C			740	200	
ACGIH			50		100	A4 - Not Classifiable as a Human Carcinogen;eye and upper respiratory tract irritation
National SWEDEN		190	50			
National FRANCE		188	50	375	100	
National SPAIN		375	100	568	150	
National GREECE		360	100	1080	300	
National DENMARK		185	50			
National FINLAND		370	100	560	150	
National GERMANY		370	100			
National PORTUGAL		375	100	568	150	
National NORWAY		180	50	225	75	
National BELGIUM		375	100	568	150	
NDS POLAND		180				
NDSch POLAND				360		
CHE SWITZERLAND				720	200	
NDS NETHERLANDS		375		563		
National CZECH REPUBLIC		270				
National HUNGARY		375		568		
Malaysi a OEL	MALAYSIA	369	100			
National ESTONIA		375	100	568	150	
National LATVIA		375	100	568	150	
National CZECH REPUBLIC	C			550		
National SLOVAKIA	C			568		
National SLOVAKIA		375	100			
National SLOVENIA		375	100	562,5	150	
National UNITED KINGDOM		375	100	560	150	
National BULGARIA		375,0	100	568,0	150	
National ROMANIA		375	100	568	150	
TUR TURKEY		375	100	568	150	
National LITHUANIA		190	50	300	75	
National CROATIA		375	100	568	150	
EU		375	100	568	150	Indicative Possibility of significant uptake through the skin

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency	Remark
reaction product: bisphenol-A- (epichlorhydrin); epoxy	25068-38-6	0,006 mg/l	Fresh Water		

resin (number average
molecular weight <=
700)

		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
dipropylenglycol methyl ether	34590-94-8	19 mg/l	Fresh Water
		1,9 mg/l	Marine water
		70,2 mg/kg	Freshwater sediments
		7,02 mg/kg	Marine water sediments
		4168 mg/l	Microorganisms in sewage treatments
		190 mg/l	Intermittent release
		2,74 mg/kg	Soil
	84852-15-3	0,000614 mg/l	Fresh Water
		0,000527 mg/l	Marine water
		4,62 mg/kg	Freshwater sediments
		1,23 mg/kg	Marine water sediments

Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industrial	Worker Professional	Consumption	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
dipropylenglycol methyl ether	34590-94-8	65 mg/kg	15 mg/kg	Human Dermal	Long Term, systemic effects
		310 mg/m ³	37,2 mg/m ³	Human Inhalation	Long Term, systemic effects
			1,67 mg/kg	Human Oral	Long Term, systemic effects
	84852-15-3	0,5 mg/m ³	0,4 mg/m ³	Human Inhalation	Long Term, systemic effects
		1 mg/m ³	0,8 mg/m ³	Human Inhalation	Short Term, systemic effects
		7,5 mg/kg	3,8 mg/kg	Human Dermal	Long Term, systemic effects
		15 mg/kg	7,6 mg/kg	Human Dermal	Short Term, systemic effects
			0,08 mg/kg	Human Oral	Long Term, systemic effects
			0,4 mg/kg	Human Oral	Short 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.

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: paste dark brown/beige

Odour: Characteristic

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: 92 °C (198 °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: N.A. - No explosive or spontaneous ignition in contact with air at room temperature
Decomposition temperature: N.A.
Viscosity: 45,000.00 cPs
Explosive properties: == - 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
dipropylenglycol methyl ether	a) acute toxicity	LD50 Oral Rat = 5660 mg/kg
		LD50 Skin Rabbit = 9500 mg/kg
		LD50 Skin Rabbit = 9500 mg/kg
		LD50 Oral Rat = 5,35 g/kg

1-methoxy-2-propanol; monopropylene glycol methyl ether	a) acute toxicity	LD50 Oral Rat = 5300 mg/kg
		LD50 Skin Rabbit = 13000 mg/kg
		LC50 Inhalation Rat = 28,8 mg/l 4h
		LD50 Skin Rabbit = 13 g/kg
		LC50 Inhalation Rat > 7559 ppm 6h
		LD50 Oral Rat = 5000 mg/kg
	h) STOT-single exposure	NOAEL Oral Rat = 919 mg/kg
		NOAEL Inhalation Rat = 3,7 mg/kg
		NOAEL Skin Rabbit > 1000 mg/kg
	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg
	LD50 Skin Rabbit 2140 mg/kg	
	LD50 Skin Rabbit = 2000 mg/kg	
	LD50 Oral Rat = 1300 mg/kg	
b) skin corrosion/irritation	Skin Irritant Rabbit Negative	
d) respiratory or skin sensitisation	Skin Sensitization Rat Negative	

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:

Harmful 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 - INDEX: 603-074-00-8	a) Aquatic acute toxicity : LC50 Fish > 2 mg/L 96 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

dipropylenglycol methyl ether	CAS: 34590-94-8 - EINECS: 252-104-2	a) Aquatic acute toxicity : LC50 Fish > 1800,00000 mg/L 96 a) Aquatic acute toxicity : LC50 Fish > 10000 mg/L 96
		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas > 10000 mg/L 96h a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 1919 mg/L 48h IUCLID
1-methoxy-2-propanol; monopropylene glycol methyl ether	CAS: 107-98-2 - EINECS: 203-539-1	a) Aquatic acute toxicity : LC50 Fish = 5000 mg/L 96
		a) Aquatic acute toxicity : EC50 Daphnia = 23300 mg/L 48 a) Aquatic acute toxicity : EC50 Algae > 1000 mg/L 96 a) Aquatic acute toxicity : LC50 Bacteria > 1000 mg/L 3 a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 20,8 g/l 96h IUCLID
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 23300 mg/L 48h IUCLID
	CAS: 84852-15-3 - EINECS: 284-325-5 - INDEX: 601-053-00-8	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 0,135 mg/L 96h IUCLID
		a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 0,1351 mg/L 96h EPA
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 0,14 mg/L 48h IUCLID
		a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata 0,36 mg/L 96h EPA
		a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata 0,16 mg/L 72h EPA
		a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 1,3 mg/L 72h IUCLID

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

Component	Bioaccumulation	Test	Duratio n	Value
	Not bioaccumulative	BCF - Bioconcentration factor	28 d	740

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.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number

N.A.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

N.A.

14.6. Special precautions for user

N.A.

Road and Rail (ADR-RID) :

N.A.

Air (IATA) :

N.A.

Sea (IMDG) :

N.A.

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

N.A.

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

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EU) 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: 30

SVHC Substances:**Substances in candidate list (Art. 59 Reg. 1907/2006, REACH):**

Component	Ident. Numb.	Quantity	Properties:
	CAS: 84852-15-3	>=0.25 - <0.49 %	SVHC
	EINECS: 284-325-5		
	Index: 601-053-00-8		

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.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
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
3.7/2	Repr. 2	Reproductive toxicity, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

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

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
3.2/2	Calculation method
3.3/2	Calculation method
3.4.2/1	Calculation method
4.1/C3	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
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 5. FIRE-FIGHTING MEASURES
- 13. DISPOSAL CONSIDERATIONS
- 15. REGULATORY INFORMATION