

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended  
by Commission Regulation (EU) 2020/878



AT / EN

## Agropox Alu Primer Teil A silbergrau

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.11.2023	6022928	Date of first issue: 09.11.2023

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

#### 1.1 Product identifier

Trade name : Agropox Alu Primer Teil A silbergrau

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

Use of the Sub-  
stance/Mixture : epoxide-resin-based coating material, solvent-containing

Recommended restrictions  
on use : within adequate application - none

#### 1.3 Details of the supplier of the safety data sheet

Company : Avenarius-Agro GmbH  
Industriestraße 51  
4600 Wels

Telephone : +4372424890  
Telefax : +437242489449

Website :  
E-mail address Respon-  
sible/issuing person : sdb@avenariusagro.at

#### 1.4 Emergency telephone

Emergency telephone 1 : Vergiftungsinformationszentrale Österreich 01 406 43 43

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapor.

Skin irritation, Category 2 H315: Causes skin irritation.

Serious eye damage, Category 1 H318: Causes serious eye damage.

Skin sensitization, Category 1 H317: May cause an allergic skin reaction.

Long-term (chronic) aquatic hazard, Cat-  
egory 2 H411: Toxic to aquatic life with long lasting effects.

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### 2.2 Label elements

#### Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapor.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P262 Do not get in eyes, on skin, or on clothing.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### **Response:**

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

#### **Hazardous ingredients which must be listed on the label:**

bis-[4-(2,3-epoxipropoxy)phenyl]propane  
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight  $\leq 700$ )  
butan-1-ol  
Phenol, methylstyrenated  
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Surface-tolerant 2-component EP-EG primer coat

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
bis-[4-(2,3-epoxipropoxy)phenyl]propane	1675-54-3 216-823-5 603-073-00-2 01-2119456619-26	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411  specific concentration limit Eye Irrit. 2; H319 >= 5 % Skin Irrit. 2; H315 >= 5 %	>= 10 - < 20
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	25068-38-6 500-033-5 603-074-00-8 01-2119456619-26	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317  specific concentration limit Eye Irrit. 2; H319 >= 5 % Skin Irrit. 2; H315 >= 5 %	>= 5 - < 10
xylene	1330-20-7 215-535-7 601-022-00-9 01-2119488216-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 2,5 - < 10

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		STOT SE 3; H335 Asp. Tox. 1; H304 STOT RE 2; H373 Aquatic Chronic 3; H412	
trizinc bis(orthophosphate)	7779-90-0 231-944-3 030-011-00-6 01-2119485044-40	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2,5 - < 10
butan-1-ol	71-36-3 200-751-6 603-004-00-6 01-2119484630-38, 01-2120076484-50	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 STOT SE 3; H335	>= 3 - < 10
Phenol, methylstyrenated	68512-30-1 270-966-8 01-2119555274-38	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 2,5 - < 10
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2 271-846-8 603-103-00-4 01-2119485289-22	Skin Irrit. 2; H315 Skin Sens. 1; H317	>= 1 - < 10
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	64742-95-6 265-199-0 649-356-00-4 01-2119455851-35, 01-2119486773-24	STOT SE 3; H336 STOT SE 3; H335 Aquatic Chronic 2; H411 Asp. Tox. 1; H304 Flam. Liq. 3; H226 EUH066	>= 1 - < 2,5
ethylbenzene	100-41-4 202-849-4 601-023-00-4 01-2119489370-35	Acute Tox. 4; H332 STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 3; H412 Flam. Liq. 2; H225	>= 1 - < 2,5
Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha	64742-48-9 265-150-3 649-327-00-6 01-2119457273-39, 01-2119463258-33	Flam. Liq. 3; H226 STOT SE 3; H336 Asp. Tox. 1; H304 EUH066	>= 1 - < 10
Substances with a workplace exposure limit :			
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	14807-96-6 238-877-9 01-2120140278-58		>= 1 - < 10
aluminium powder (stabilised)	7429-90-5 231-072-3 013-002-00-1	Flam. Sol. 1; H228	>= 1 - < 10

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01-2119529243-45

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

- General advice : Never give anything by mouth to an unconscious person.  
If you feel unwell, seek medical advice (show the label where possible).  
Move out of dangerous area.  
First aider needs to protect himself.
- If inhaled : Move to fresh air.  
  
If symptoms persist, call a physician.  
  
If unconscious, place in recovery position and seek medical advice.  
  
If breathing is irregular or stopped, administer artificial respiration.  
  
Call a physician.
- In case of skin contact : Do NOT use solvents or thinners.  
In case of contact, immediately flush skin with soap and plenty of water.  
Take off all contaminated clothing immediately.
- In case of eye contact : IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
- If swallowed : Call a physician.  
Clean mouth with water and drink afterwards plenty of water.  
If swallowed, DO NOT induce vomiting.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Risks : Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye damage.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No information available.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Foam  
Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : None known.

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Cool closed containers exposed to fire with water spray.  
Hazardous decomposition products formed under fire conditions.

#### 5.3 Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Standard procedure for chemical fires.  
In the event of fire and/or explosion do not breathe fumes.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Do not get in eyes, on skin, or on clothing.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
Ensure adequate ventilation.  
Remove all sources of ignition.

#### 6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.  
Do not flush into surface water or sanitary sewer system.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Keep in suitable, closed containers for disposal.

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Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

### 6.4 Reference to other sections

For further information see Section 7 of the safety data sheet.

, For personal protection see section 8., For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.  
Avoid exceeding the given occupational exposure limits (see section 8).  
Provide sufficient air exchange and/or exhaust in work rooms.

The current technical information on [www.avenariusagro.at](http://www.avenariusagro.at) must be observed.

Advice on protection against fire and explosion : The product is flammable but not readily ignited.

Hygiene measures : Avoid contact with the skin and the eyes. Wash hands before eating, drinking, or smoking. Do not eat, drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating areas.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Store between 41 and 77 °F in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### 7.3 Specific end use(s)

Specific use(s) : This information is not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	14807-96-6	MAK-TMW (al-veolate part)	2 mg/m <sup>3</sup>	AT OEL
xylene	1330-20-7	TWA	50 ppm	2000/39/EC

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			221 mg/m <sup>3</sup>	
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 442 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		MAK-TMW	50 ppm 221 mg/m <sup>3</sup>	AT OEL
		MAK-KZW	100 ppm 442 mg/m <sup>3</sup>	AT OEL
butan-1-ol	71-36-3	MAK-TMW	50 ppm 150 mg/m <sup>3</sup>	AT OEL
		MAK-KZW	200 ppm 600 mg/m <sup>3</sup>	AT OEL
aluminium powder (stabilised)	7429-90-5	MAK-TMW (alveolate part)	5 mg/m <sup>3</sup>	AT OEL
		MAK-TMW (inhalable fraction)	10 mg/m <sup>3</sup>	AT OEL
		MAK-KZW (alveolate part)	10 mg/m <sup>3</sup>	AT OEL
		MAK-KZW (inhalable fraction)	20 mg/m <sup>3</sup>	AT OEL
ethylbenzene	100-41-4	TWA	100 ppm 442 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	200 ppm 884 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		MAK-KZW	200 ppm 880 mg/m <sup>3</sup>	AT OEL
	Further information: Risk of skin absorption			
		MAK-TMW	100 ppm 440 mg/m <sup>3</sup>	AT OEL
	Further information: Risk of skin absorption			

### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
xylene	1330-20-7	methyl hippuric acid: 1,5 g/l (Urine)	At the end of a work week / at the end of a work day / at the end of a shift	VGÜ2014
		xylene: 1 mg/l (Blood)	End of workday	VGÜ2014
aluminium powder (stabilised)	7429-90-5	Aluminum (Aluminum): 60 µg/g cre-	At the end of a work week / at the	VGÜ2014



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		atinine (Urine)	end of a work day / at the end of a shift	
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### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of exposure	Potential health effects	Value	
barium sulfate	Consumers	Inhalation	Long-term systemic effects	10,00 mg/m <sup>3</sup>	
	Consumers	Ingestion	Long-term systemic effects	13000,00 mg/kg bw/day	
	Workers	Inhalation	Long-term systemic effects	10,00 mg/m <sup>3</sup>	
	Workers	Inhalation	Long-term local effects	10,00 mg/m <sup>3</sup>	
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Consumers	Skin contact	Long-term systemic effects	3,57 mg/kg bw/day	
	Consumers	Skin contact	Acute systemic effects	3,57 mg/kg bw/day	
	Consumers	Ingestion	Acute systemic effects	0,75 mg/kg bw/day	
	Consumers	Ingestion	Long-term systemic effects	0,75 mg/kg bw/day	
	Workers	Inhalation	Acute systemic effects	12,25 mg/m <sup>3</sup>	
	Workers	Inhalation	Long-term systemic effects	12,25 mg/m <sup>3</sup>	
	Workers	Skin contact	Acute systemic effects	8,33 mg/kg bw/day	
	Workers	Skin contact	Long-term systemic effects	8,33 mg/kg bw/day	
	xylene	Consumers	Inhalation	Acute local effects	174,00 mg/m <sup>3</sup>
		Consumers	Skin contact	Long-term systemic effects	108,00 mg/kg bw/day
Consumers		Inhalation	Acute systemic effects	174,00 mg/m <sup>3</sup>	
Consumers		Ingestion	Long-term systemic effects	1,60 mg/kg bw/day	
Consumers		Inhalation	Long-term systemic effects	14,80 mg/m <sup>3</sup>	
Workers		Inhalation	Acute systemic effects	289,00 mg/m <sup>3</sup>	
Workers		Inhalation	Acute local effects	289,00 mg/m <sup>3</sup>	
Workers		Inhalation	Long-term systemic effects	77,00 mg/m <sup>3</sup>	
Workers	Skin contact	Long-term systemic	180,00 mg/kg		

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			effects	bw/day
trizinc bis(orthophosphate)	Consumers	Ingestion	Long-term systemic effects	0,83 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	83,00 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2,50 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	5,00 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	83,00 mg/kg bw/day
Hematite (Fe <sub>2</sub> O <sub>3</sub> )	Consumers	Inhalation	Acute systemic effects	0,09 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	0,00 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	0,00 mg/kg bw/day
	Workers	Inhalation	Acute systemic effects	0,18 mg/m <sup>3</sup>
butan-1-ol	Consumers	Inhalation	Long-term local effects	55,00 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	3,13 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	310,00 mg/m <sup>3</sup>
aluminium powder (stabilised)	Consumers	Ingestion	Long-term systemic effects	7,90 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	3,95 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	3,72 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	3,72 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	3,72 mg/m <sup>3</sup>
ethylbenzene	Consumers	Ingestion	Long-term systemic effects	1,60 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	15,00 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	884,00 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	293,00 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	884,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	77,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	442,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local ef-	442,00 mg/m <sup>3</sup>

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	Workers	Skin contact	effects	
			Long-term systemic effects	180,00 mg/kg bw/day

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
barium sulfate	Fresh water	115 µg/l
	Fresh water sediment	600,4 mg/kg dry weight (d.w.)
	Soil	207,7 mg/kg dry weight (d.w.)
	Sewage treatment plant	62,2 mg/l
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Fresh water sediment	0,996 mg/kg dry weight (d.w.)
	Soil	0,196 mg/kg dry weight (d.w.)
	Sea sediment	0,0996 mg/kg dry weight (d.w.)
	Intermittent use/release	0,018 mg/l
xylene	Fresh water	0,006 mg/l
	Secondary Poisoning	11 mg/kg food
	Sea water	0,0006 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water	0,327 mg/l
	Intermittent use/release	0,327 mg/l
	Soil	2,31 mg/kg dry weight (d.w.)
	Fresh water sediment	12,46 mg/kg dry weight (d.w.)
	Sewage treatment plant	6,58 mg/l
	Sea water	0,327 mg/l
trizinc bis(orthophosphate)	Sea sediment	12,46 mg/kg dry weight (d.w.)
	Fresh water	56,5 mg/kg dry weight (d.w.)
	Soil	20,6 µg/l
	Sewage treatment plant	35,6 mg/kg dry weight (d.w.)
Hematite (Fe <sub>2</sub> O <sub>3</sub> )	Fresh water sediment	100 µg/l
	Fresh water sediment	117,8 mg/kg dry weight (d.w.)
	Sea water	6,1 µg/l
	Fresh water	0,32 µg/l
butan-1-ol	Secondary Poisoning	0,43 mg/kg food
	Sewage treatment plant	1,9 mg/l
	Sewage treatment plant	2476 mg/l

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	Fresh water	0,082 mg/l
	Intermittent use/release	2,25 mg/l
	Fresh water sediment	0,178 mg/kg dry weight (d.w.)
	Sea water	0,0082 mg/l
	Sea sediment	0,0178 mg/kg dry weight (d.w.)
	Soil	0,015 mg/kg dry weight (d.w.)
aluminium powder (stabilised)	Sewage treatment plant	20 mg/l
	Fresh water	74,9 µg/l
ethylbenzene	Intermittent use/release	0,1 mg/l
	Sewage treatment plant	9,6 mg/l
	Fresh water	0,1 mg/l
	Sea water	0,01 mg/l
	Fresh water sediment	13,7 mg/kg dry weight (d.w.)
	Soil	2,68 mg/kg dry weight (d.w.)
	Sea sediment	1,37 mg/kg dry weight (d.w.)
	Secondary Poisoning	0,02 g/kg food
	Sea water	0,1 mg/l

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

#### Hand protection

Material : butyl-rubber  
Glove thickness : 0,2 mm  
Protective index : Class 3  
Wearing time : 30 min

Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Before removing gloves clean them with soap and water. Wear suitable gloves tested to EN374.

Skin and body protection : Safety shoes  
Use appropriate degowning techniques to remove potentially contaminated clothing.  
Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.  
Long sleeved clothing

Choose body protection according to the amount and con-

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centration of the dangerous substance at the work place.

Skin should be washed after contact.

Remove and wash contaminated clothing before re-use.  
During spray application: impervious clothing

Respiratory protection : During spray application: Do not breathe spray dust. Use  
A2/P2 combination filter for paint spraying.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	: liquid
Color	: gray
Odor	: No data available
Odor Threshold	: Not relevant
Melting point/freezing point	: not determined
Boiling point/boiling range	: not determined
Upper explosion limit / Upper flammability limit	: not determined
Lower explosion limit / Lower flammability limit	: not determined
Flash point	: 30 °C
Autoignition temperature	: not determined
Decomposition temperature	: Not applicable

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pH : 6,95  
Concentration: 10 %

Viscosity  
Viscosity, dynamic : No data available

Viscosity, kinematic : > 20,5 mm<sup>2</sup>/s (40 °C)

Flow time : > 60 s at 23 °C  
Cross section: 6 mm  
Method: ISO 2431

Solubility(ies)  
Water solubility : partly miscible

Partition coefficient: n-  
octanol/water : not determined

Vapor pressure : not determined

Relative density : not determined

Density : 1,6500 g/cm<sup>3</sup>

Relative vapor density : Heavier than air.

### 9.2 Other information

Explosives : Not applicable

Oxidizing properties : Not applicable

Flammability (liquids) : Sustains combustion

Evaporation rate : Not applicable

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Vapors may form explosive mixture with air.  
Hazardous decomposition products formed under fire conditions.

#### 10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.

#### 10.5 Incompatible materials

Materials to avoid : Incompatible with acids.  
Incompatible with oxidizing agents.

#### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute toxicity

Not classified based on available information.

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

##### Components:

##### **xylene:**

Acute oral toxicity : LD50 (Rat): 4.300 mg/kg

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Acute inhalation toxicity : LC50 (Rat): 27,5 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

### **butan-1-ol:**

Acute oral toxicity : LD50 (Rat): 790 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 3.430 mg/kg

### **ethylbenzene:**

Acute oral toxicity : LD50 Oral (Rat): 3.500 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 17.800 mg/kg

### **Skin corrosion/irritation**

Causes skin irritation.

### **Serious eye damage/eye irritation**

Causes serious eye damage.

### **Respiratory or skin sensitization**

#### **Skin sensitization**

May cause an allergic skin reaction.

#### **Respiratory sensitization**

Not classified based on available information.

#### **Germ cell mutagenicity**

Not classified based on available information.

#### **Carcinogenicity**

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### **STOT-single exposure**

Not classified based on available information.

#### **STOT-repeated exposure**

Not classified based on available information.

#### **Aspiration toxicity**

Not classified based on available information.



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### 11.2 Information on other hazards

#### Endocrine disrupting properties

##### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Further information

##### Product:

Remarks : Although the product only contains epoxy resins with high molecular weight, follow good industrial hygiene practice and avoid prolonged skin contact.

## SECTION 12: Ecological information

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

#### Components:

##### **bis-[4-(2,3-epoxipropoxy)phenyl]propane:**

Partition coefficient: n-octanol/water : log Pow: 3,242 (25 °C)  
pH: 7,1

##### **reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700):**

Partition coefficient: n-octanol/water : log Pow: > 2 (25 °C)  
pH: 7

##### **xylene:**

Partition coefficient: n-octanol/water : log Pow: ca. 3,155 (20 °C)  
pH: 7

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

Partition coefficient: n-octanol/water : log Pow: 3,77  
Method: OECD Test Guideline 107

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### Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Partition coefficient: n-octanol/water : log Pow: 1,99 - 18,02 (20 °C)  
pH: 7

### ethylbenzene:

Partition coefficient: n-octanol/water : Pow: 4.170 (20 °C)  
log Pow: 3,6 (20 °C)  
pH: 7,84

### Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha:

Partition coefficient: n-octanol/water : log Pow: 1,99 - 18,02 (20 °C)  
pH: 7

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Endocrine disrupting properties

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

### Product:

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

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Materials and all related packaging must be disposed of in a

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safe way in accordance with the full requirements of the local, regional, national and international authorities.

Uncured product residues and unpurified packaging should be disposed of as hazardous waste.

Material residues: Allow the basic substance to harden with hardener and dispose of as paint waste.

Waste should not be disposed of via wastewater.

Contaminated packaging : Only completely emptied containers should be given for recycling.

Waste Code : used product  
080111\*, waste paint and varnish containing organic solvents or other dangerous substances

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADN : UN 1263

ADR : UN 1263

RID : UN 1263

IMDG : UN 1263

IATA : UN 1263

### 14.2 UN proper shipping name

ADN : PAINT

ADR : PAINT

RID : PAINT

IMDG : PAINT  
(trizinc bis(orthophosphate), bis-[4-(2,3-epoxipropoxy)phenyl]propane)

IATA : Paint

### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 3	
ADR	: 3	
RID	: 3	
IMDG	: 3	

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**IATA** : 3

### 14.4 Packing group

#### ADN

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

#### ADR

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : (D/E)

#### RID

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

#### IMDG

Packing group : III  
Labels : 3  
EmS Code : F-E, S-E

#### IATA (Cargo)

Packing instruction (cargo aircraft) : 366  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

#### IATA (Passenger)

Packing instruction (passenger aircraft) : 355  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : yes

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

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Marine pollutant : yes

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59) : This product is a mixture and does not contain Substances of Very High Concern (SVHC) equal or above 0.1%. Therefore no advised uses have to be defined and no chemical safety assessment has to be generated.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : None

Fire Hazard Class : 3: flammable liquids of hazard category 3 (flammable)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P5c FLAMMABLE LIQUIDS

E2 ENVIRONMENTAL HAZARDS

Water hazard class (Germa- : WGK 2 obviously hazardous to water

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- ny) Classification according to AwSV, Annex 1 (5.2)
- . : RE70 Epoxy resin products, sensitising, containing solvents
- Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 13,49 %
- Volatile organic compounds : Directive 2004/42/EC  
< 14 %  
< 230 g/l

### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

## 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this mixture.

## SECTION 16: Other information

### Full text of H-Statements

- H225 : Highly flammable liquid and vapor.  
H226 : Flammable liquid and vapor.  
H228 : Flammable solid.  
H302 : Harmful if swallowed.  
H304 : May be fatal if swallowed and enters airways.  
H312 : Harmful in contact with skin.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.  
H335 : May cause respiratory irritation.  
H336 : May cause drowsiness or dizziness.  
H373 : May cause damage to organs through prolonged or repeated exposure.  
H373 : May cause damage to organs through prolonged or repeated exposure if inhaled.  
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.

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EUH066 : Repeated exposure may cause skin dryness or cracking.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Flam. Sol.	: Flammable solids
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitization
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
AT OEL	: Austria. Limit values regulation - Annex I: Substance list
VGÜ2014	: Austria. Regulation on health surveillance in the workplace 2014
2000/39/EC / TWA	: Limit Value - eight hours
2000/39/EC / STEL	: Short term exposure limit
AT OEL / MAK-TMW	: Time Weighted Average
AT OEL / MAK-KZW	: Short Term Exposure Limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Other information:

No exposure scenario communication is required for this product according to REACH Regulation No. 1907/2006 EC.

Communication of Uses is not required in accordance with REACH Article 31(1)(a) - registered substances / mixtures do not meet the criteria for classification as hazardous in accordance with Regulations 1272/2008 EC or 1999/45/EC.

### Sources of key data used to compile the Material Safety Data Sheet:

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ECHA WebSite

ACGIH (American Conference of Government Industrial Hygienists). 2014 TLVs and BEIs.

Threshold Limit Values (TLVs) for chemical substances and physical agents and Biological Exposure Indices (BEIs) with Seventh Edition documentation. 2014 ACGIH, Cincinnati OH

NIOSH - Registry of toxic effects of chemical substances

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX'S - Dangerous properties of industrial materials

GESTIS - Database on hazardous substances - Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA, Institute for Occupational Safety and Health of the German Social Accident Insurance)

Toxnet - Toxicology Data Network

### Classification of the mixture:

Flam. Liq. 3	H226
Skin Irrit. 2	H315
Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Chronic 2	H411

### Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

### REACH Information

According to our legal obligation we implement the Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). We will adjust and update our safety data sheets on a regular base in accordance with the information of our upstream-suppliers. As usual we will inform you about the adjustments.

Regarding to the REACH regulation we would like to point out that DAW as a downstream user will not register on behalf of our company. We will rely on information from our suppliers. As soon as new information is available our safety data sheets will be amended accordingly.

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