

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 06-May-2024 Revision Number 2

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

1.1. Product identifier

Safety data sheet number FG-1123A

Product Name Part A:

XTC-3D Epsilon Pro

Other means of identification

Unique Formula Identifier (UFI) HPW2-80F3-T00E-7S3U

Pure substance/mixture Mixture

Contains Bisphenol A diglycidyl ether; Benzyl alcohol

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

Recommended use Formulated Epoxy Resin

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

### Manufacturer

Smooth-On, Inc., 5600 Lower Macungie Rd, Macungie, PA 18062, USA, Phone: +01.610.252.5800, www.smooth-on.com, sds@smooth-on.com

For further information, please contact

E-mail address sds@smooth-on.com

### 1.4. Emergency telephone number

Emergency Telephone CHEMTEL +01-813-248-0585

Emergency Telephone - §45 -	Emergency Telephone - §45 - (EC)1272/2008				
Europe	112				
Austria	01 406 43 43				
Belgium	070 245 245				
Bulgaria	+359 9154 233				
Croatia	+385 1 2348 342				
Cyprus	1401				
Czech Republic	224 91 92 93				
	22191 54 02				
Denmark	+45 8212 1212				
Estonia	16662				
Finland	Maksuton Puhelu: 0800 147 111				
	Normihinta: +358 9 471 977				

France	+33 01 45 42 59 59					
Germany	112					
Greece	(0030) 2107793777					
Hungary	+36 80 201 199					
Iceland	+354 543 2222					
Ireland	01 837 9964					
	01 809 2566					
Italy	06 3054 343					
Latvia	+370 (5) 2362052					
Liechtenstein	01 406 43 43					
Lithuania	+370 5 236 20 52					
	+370 687 533 78					
Luxembourg	(+352) 8002 5500					
Netherlands	+31 (0) 88 755 8000					
Norway	22 59 13 00					
Poland	+48 22 619 66 54					
Portugal	+351 800 250 250					
Romania	+40 21 599 2300					
Slovakia	+421 2 5477 4166					
Spain	+34 91 562 04 20					
Sweden	112					
Switzerland	145					
United Kingdom	0344 892 0111					

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)
Chronic aquatic toxicity	Category 3 - (H412)

### 2.2. Label elements

Contains Bisphenol A diglycidyl ether; Benzyl alcohol



## Signal word

Warning

### **Hazard statements**

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H412 - Harmful to aquatic life with long lasting effects.

## Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

- P264 Wash face, hands and any exposed skin thoroughly after handling.
- P280 Wear protective gloves and eye/face protection.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P501 Dispose of contents/ container to an approved waste disposal plant.
- P321 Specific treatment (see supplemental first aid instructions on this label).

### **Additional information**

This product requires tactile warnings if supplied to the general public.

### 2.3. Other hazards

No information available.

**Endocrine Disruptor Information** 

This product does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Chemical name	Weight-%	REACH registration	EC No (EU	Classification according	Specific	M-Factor	M-Factor
		number	Index No)	to Regulation (EC) No.	concentration		(long-term)
				1272/2008 [CLP]	limit (SCL)		
Bisphenol A	75 - 90	Below import quantity	216-823-5	Skin Irrit. 2 (H315)	Eye Irrit. 2 ::	-	-
diglycidyl ether		threshold or otherwise	(603-073-00	Eye Irrit. 2 (H319)	C>=5%		
1675-54-3		exempt	-2)	Skin Sens. 1 (H317)	Skin Irrit. 2 ::		
					C>=5%		
Benzyl alcohol	10 - 20	Below import	202-859-9	Acute Tox. 4 (H302)	-	-	-
100-51-6		reportable quantity	(603-057-00	Eye Irrit. 2 (H319)			
		threshold or otherwise	-5)	Skin Sens. 1B (H317)			
		exempt					
Silica, amorphous,	< 5	Below import	-	No data available	-	-	-
fumed,		reportable quantity					
crystalline-free		threshold or otherwise					
112945-52-5		exempt.					

If "No data available" is reported in the REACH Registration Number column, then the chemical substance is imported in quantities that are below the REACH registration threshold or are otherwise exempt from registration

### Full text of H- and EUH-phrases: see section 16

### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
		mg/kg	hour - dust/mist - mg/L	hour - vapor - mg/L	hour - gas - ppm
Bisphenol A diglycidyl ether 1675-54-3	11266.1	20000	No data available	No data available	No data available
Benzyl alcohol	1200+	2000	4.178	No data available	No data available

<sup>&</sup>quot;Below import reportable quantity threshold or otherwise exempt"

Chemical name	Oral LD50 mg/kg		Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
100-51-6	1230				
Silica, amorphous, fumed, crystalline-free 112945-52-5	3160	No data available	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur. If symptoms

persist, call a physician. If breathing has stopped, give artificial respiration. Get medical

attention immediately.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

**Skin contact**May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a

physician. Wash off immediately with soap and plenty of water for at least 15 minutes.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Get medical attention.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the

material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as

required. See section 8 for more information.

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

Symptoms Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

Coughing and/ or wheezing. Difficulty in breathing.

Effects of Exposure No information available.

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

**Note to physicians** May cause sensitization in susceptible persons. Treat symptomatically.

## SECTION 5: Firefighting measures

5.1. Extinguishing media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

## **SECTION 6: Accidental release measures**

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

### 6.1.1- Recommendations for those who intervene directly

No information available.

### 6.1.2.- Recommendations for those who do not intervene directly

No information available.

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak. Avoid breathing vapors or mists.

Refer to protective measures listed in Sections 7 and 8. Other information

Use personal protection recommended in Section 8. For emergency responders

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. **Environmental precautions** 

6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with Advice on safe handling

> skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off

contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

General hygiene considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

product. Avoid contact with skin, eyes or clothing.

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

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children.

Storage class (TRGS 510) Storage class 10.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Benzyl alcohol 100-51-6	-	-	-	TWA: 5.0 mg/m <sup>3</sup>	-
Silica, amorphous, fumed, crystalline-free 112945-52-5	-	TWA: 4 mg/m <sup>3</sup>	-	-	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Benzyl alcohol 100-51-6	-	TWA: 40 mg/m <sup>3</sup> Ceiling: 80 mg/m <sup>3</sup>	-	-	TWA: 10 ppm TWA: 45 mg/m <sup>3</sup>
Silica, amorphous, fumed, crystalline-free 112945-52-5	-	TWA: 0.1 mg/m <sup>3</sup> TWA: 4.0 mg/m <sup>3</sup>	-	TWA: 2 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Bisphenol A diglycidyl ether 1675-54-3	-	-	skin sensitizer	-	-
Benzyl alcohol 100-51-6	•	TWA: 5 ppm TWA: 22 mg/m³ Sk*	TWA: 22 mg/m <sup>3</sup> TWA: 5 ppm Peak: 44 mg/m <sup>3</sup> Peak: 10 ppm Sk*	-	-
Silica, amorphous, fumed, crystalline-free 112945-52-5	-	TWA: 4 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup> Peak: 0.16 mg/m <sup>3</sup>	-	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Benzyl alcohol 100-51-6	-	-	-	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> Sk*
Silica, amorphous, fumed, crystalline-free 112945-52-5	TWA: 6 mg/m <sup>3</sup> TWA: 2.4 mg/m <sup>3</sup> STEL: 18 mg/m <sup>3</sup> STEL: 7.2 mg/m <sup>3</sup>	-	-	TWA: 1 mg/m <sup>3</sup>	-
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Benzyl alcohol 100-51-6	-	-	-	-	TWA: 240 mg/m <sup>3</sup>
Silica, amorphous, fumed, crystalline-free 112945-52-5	-	-	-	TWA: 1.5 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	-
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Benzyl alcohol 100-51-6	-	-	-	TWA: 22 mg/m <sup>3</sup> TWA: 5 ppm	-

				STEL: 1 STEL: 44 Sk	4 mg/m <sup>3</sup>	
Silica, amorphous, fumed, crystalline-free 112945-52-5	-	-	-	TWA: 4	mg/m³	-
Chemical name		Sweden	Switzerlan	id	Ur	ited Kingdom
Benzyl alcohol 100-51-6		-	TWA: 5 pp TWA: 22 mg Sk*			-
Silica, amorphous, fu crystalline-free 112945-52-5	med,	-	TWA: 4 mg/	/m³	TV ST	WA: 6 mg/m <sup>3</sup> VA: 2.4 mg/m <sup>3</sup> EL: 18 mg/m <sup>3</sup> EL: 7.2 mg/m <sup>3</sup>

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

### **Derived No Effect Level (DNEL) - Workers**

Chemical name	Oral	Dermal	Inhalation
Bisphenol A diglycidyl ether 1675-54-3	-	0.75 mg/kg bw/day [4] [6]	4.93 mg/m³ [4] [6]
Benzoic acid, 4-[[(methylphenylamino)methylene]ami no]-, ethyl ester 57834-33-0	-	1 mg/kg bw/day [4] [6]	0.6 mg/m³ [4] [6]
Solvent naphtha, petroleum, light aromatic 64742-95-6	-	-	1286.4 mg/m³ [4] [7] 837.5 mg/m³ [5] [6] 1066.67 mg/m³ [5] [7]

**Notes** 

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

## Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Bisphenol A diglycidyl ether	0.5 mg/kg bw/day [4] [6]	-	0.87 mg/m³ [4] [6]
1675-54-3			
Benzoic acid,	0.1 mg/kg bw/day [4] [6]	-	0.1 μg/m³ [4] [6]
4-[[(methylphenylamino)methylene]ami			-
no]-, ethyl ester			
57834-33-0			
Solvent naphtha, petroleum, light	-	-	1152 mg/m³ [4] [7]
aromatic			178.57 mg/m³ [5] [6]
64742-95-6			640 mg/m³ [5] [7]

**Notes** 

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

### **Predicted No Effect Concentration (PNEC)**

Chemical name	Freshwater	Freshwater	Marine water	Marine water	Air
		(intermittent release)		(intermittent release)	
Bisphenol A diglycidyl ether 1675-54-3	0.006 mg/L	0.018 mg/L	0.0006 mg/L	0.0018 mg/L	-
Benzoic acid, 4-[[(methylphenylamino)m ethylene]amino]-, ethyl ester 57834-33-0	1.4 μg/L	14 μg/L	0.14 μg/L	1.4 μg/L	-

Chemical name	Freshwater	Marine sediment	Sewage treatment	Soil	Food chain
	sediment				
Bisphenol A diglycidyl ether	0.341 mg/kg	0.0341 mg/kg	10 mg/L	0.0647 mg/kg soil	11 mg/kg food
1675-54-3	sediment dw	sediment dw		dw	
Benzoic acid,	5.26 µg/kg sediment	0.526 µg/kg	10 mg/L	0.231 µg/kg soil dw	-
4-[[(methylphenylamino)m	dw	sediment dw			
ethylene]amino]-, ethyl					
ester					
57834-33-0					

### 8.2. Exposure controls

**Engineering controls** No information available.

Personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing.

**Respiratory protection** Appropriate respiratory protection should be selected and used according to the chemical

nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be

required.

General hygiene considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

product. Avoid contact with skin, eyes or clothing.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid

**Color** No information available

Odor Mild.

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing pointNo data availableNone knownInitial boiling point and boiling rangeNo data availableNone knownFlammabilityNo data availableNone knownFlammability Limit in AirNone known

**Upper flammability or explosive** above 200 °F

limits

Lower flammability or explosive No data available

limits

Flash point > 148.8889 °C None known **Autoignition temperature** No data available None known **Decomposition temperature** None known No data available None known pH (as aqueous solution) No data available None known Kinematic viscosity 5,000 - 20,000 cPs None known **Dynamic viscosity** No data available None known Water solubility Insoluble in water None known Solubility(ies) No data available None known **Partition coefficient** No data available None known

No data available

None known

None known

Relative density 1.0 – 1.2

Bulk density No data available
Liquid Density No data available

Relative vapor density No data available None known

Particle characteristics

Vapor pressure

Particle Size No information available Particle Size Distribution No information available

### 9.2. Other information

9.2.1. Information with regard to physical hazard classes Not applicable

9.2.2. Other safety characteristics

No information available

## SECTION 10: Stability and reactivity

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Excessive heat.

### 10.5. Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

## SECTION 11: Toxicological information

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

### Information on likely routes of exposure

### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract. Harmful by inhalation. (based on components).

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

**Skin contact** May cause sensitization by skin contact. Specific test data for the substance or mixture is

not available. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons. (based on components). Causes skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes. Coughing

and/ or wheezing.

Acute toxicity Harmful by inhalation.

**Numerical measures of toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 5,232.00 mg/kg

 ATEmix (dermal)
 9,263.50 mg/kg

 ATEmix (inhalation-dust/mist)
 4.40 mg/l

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Bisphenol A diglycidyl ether	= 11300 μL/kg (Rat)	= 20000 mg/kg (Rabbit)	-
Benzyl alcohol	= 1230 mg/kg (Rat)	= 2 g/kg (Rabbit)	> 4178 mg/m³ (Rat)4 h
Silica, amorphous, fumed, crystalline-free	= 3160 mg/kg (Rat)	-	-

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes skin irritation.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitization** May cause an allergic skin reaction.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Chemical name		Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Benzyl alcohol		-	LC50: =460mg/L (96h, Pimephales promelas) LC50: =10mg/L (96h, Lepomis macrochirus)	-	EC50: =23mg/L (48h, water flea)
Silica, amorphous, fu crystalline-free	med,	EC50: =440mg/L (72h, Pseudokirchneriella subcapitata)	LC50: =5000mg/L (96h, Brachydanio rerio)	-	EC50: =7600mg/L (48h, Ceriodaphnia dubia)

### 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** 

**Component Information** 

Chemical name	Partition coefficient
Bisphenol A diglycidyl ether	2.33
Benzyl alcohol	1.05

### 12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the

threshold of declaration.

Chemical name	PBT and vPvB assessment	
Bisphenol A diglycidyl ether	The substance is not PBT / vPvB	
Benzyl alcohol	The substance is not PBT / vPvB	

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 12.7. Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## **SECTION 14: Transport information**

<u>IATA</u>

14.1 UN number or ID number UN 3082

**14.2 UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin)

14.3 Transport hazard class(es)914.4 Packing groupIII

14.5 Environmental hazards Marine Pollutant

14.6 Special precautions for user

Special Provisions None

**IMDG** 

14.1 UN number or ID number UN 3082

**14.2 UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin)

14.3 Transport hazard class(es) Not regulated

Subsidiary hazard class 9
14.4 Packing group III

14.5 Environmental hazards Marine Pollutant

14.6 Special precautions for user

**Special Provisions EmS-No.**None
F-A, S-F

**14.7 Maritime transport in bulk** No information available

### according to IMO instruments

RID

**14.1 UN number or ID number** 3082

**14.2 UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin)

14.3 Transport hazard class(es)914.4 Packing group

14.5 Environmental hazards Marine Pollutant

14.6 Special precautions for user

Special Provisions None

**ADR** 

14.1 UN number or ID number 3082

**14.2 UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin)

14.3 Transport hazard class(es) 9
14.4 Packing group ||||

14.5 Environmental hazards Marine Pollutant

14.6 Special precautions for user

Special Provisions None

## SECTION 15: Regulatory information

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

### National regulations

### **France**

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
Benzyl alcohol - 100-51-6	RG 84

### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

### Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Chemical name	Restricted substance per REACH	Substance subject to authorization per
	Annex XVII	REACH Annex XIV
Bisphenol A diglycidyl ether - 1675-54-3	75	-
Benzyl alcohol - 100-51-6	75	-

### **Persistent Organic Pollutants**

Not applicable

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Chemical name	EU - Plant Protection Products (1107/2009/EC)
Silica, amorphous, fumed, crystalline-free - 112945-52-5	Plant protection agent

International Inventories

**TSCA** Contact supplier for inventory compliance status **DSL/NDSL** Contact supplier for inventory compliance status **EINECS/ELINCS** Contact supplier for inventory compliance status Contact supplier for inventory compliance status **ENCS** Contact supplier for inventory compliance status **IECSC KECI** Contact supplier for inventory compliance status **PICCS** Contact supplier for inventory compliance status AIIC Contact supplier for inventory compliance status **NZIoC** Contact supplier for inventory compliance status

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**AllC** - Australian Inventory of Industrial Chemicals **NZIoC** - New Zealand Inventory of Chemicals

### 15.2. Chemical safety assessment

Chemical Safety Report No information available

## **SECTION 16: Other information**

## Key or legend to abbreviations and acronyms used in the safety data sheet

### Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

### Legend

SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT: Specific Target Organ Toxicity

ATE: Acute Toxicity Estimate LC50: 50% Lethal Concentration

LD50: 50% Lethal Dose

### Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Sk\* Skin designation

+ Sensitizers

Classification procedure		
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used	
Acute oral toxicity	Calculation method	
Acute dermal toxicity	Calculation method	

Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

European Chemicals Agency (ECHA) (ECHA\_API)

**Environmental Protection Agency** 

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date

06-May-2024

# Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Disclaimer

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.

**End of Safety Data Sheet** 



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 02-May-2025 Revision Number 1

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

### 1.1. Product identifier

Safety data sheet number FG-1141B

Product Name Part B: Epsilon PRO

Other means of identification

Unique Formula Identifier (UFI) UU30-30RC-P00A-U5X1

Pure substance/mixture Mixture

Contains Benzyl alcohol; 1,3-Cyclohexanedimethanamine; Cyclohexanamine, 4,4-methylenebis-; Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-

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

Recommended use Epoxy Coating Curative

Uses advised against No information available

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

### Supplier

Smooth-On, Inc, 5600 Lower Macungie Rd, Macungie, PA 18062, USA, Phone: +01.610.252.5800, www.smooth-on.com, sds@smooth-on.com

For further information, please contact

E-mail address sds@smooth-on.com

### 1.4. Emergency telephone number

Emergency Telephone CHEMTEL +01-813-248-0585

Emergency Telephone - §45 - (EC)1272/2008		
Europe	112	
Austria	01 406 43 43	
Belgium	070 245 245	
Bulgaria	+359 9154 233	
Croatia	+385 1 2348 342	
Cyprus	1401	
Czech Republic	224 91 92 93 22191 54 02	
Denmark	+45 8212 1212	
Estonia	16662	
Finland	Maksuton Puhelu: 0800 147 111 Normihinta: +358 9 471 977	
France	+33 01 45 42 59 59	

Germany	112
Greece	(0030) 2107793777
Hungary	+36 80 201 199
Iceland	+354 543 2222
Ireland	01 837 9964
	01 809 2566
Italy	06 3054 343
Latvia	+370 (5) 2362052
Liechtenstein	01 406 43 43
Lithuania	+370 5 236 20 52
	+370 687 533 78
Luxembourg	(+352) 8002 5500
Netherlands	+31 (0) 88 755 8000
Norway	22 59 13 00
Poland	+48 22 619 66 54
Portugal	+351 800 250 250
Romania	+40 21 599 2300
Slovakia	+421 2 5477 4166
Spain	+34 91 562 04 20
Sweden	112
Switzerland	145
United Kingdom	0344 892 0111

## **SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Dermal	Category 4 - (H312)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 1 Sub-category B - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitization	Category 1 - (H317)
Hazardous to the aquatic environment - chronic	Category 2 - (H411)

### 2.2. Label elements

Contains Benzyl alcohol; 1,3-Cyclohexanedimethanamine; Cyclohexanamine, 4,4-methylenebis-; Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-



### Signal word Danger

## **Hazard statements**

H302 - Harmful if swallowed.

H312 - Harmful in contact with skin.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H332 - Harmful if inhaled.

H411 - Toxic to aquatic life with long lasting effects.

### Precautionary Statements - EU (§28, 1272/2008)

P260 - Do not breathe dust, fume, gas, mist, vapors and spray.

P273 - Avoid release to the environment.

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

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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

P310 - Immediately call a POISON CENTER or doctor.

P391 - Collect spillage.

### **Additional information**

This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public.

### 2.3. Other hazards

Toxic to aquatic life.

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

## **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Chemical name	Weight-%	REACH registration number	`	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Benzyl alcohol 100-51-6	35 - 60	Below import reportable quantity threshold or otherwise exempt	202-859-9 (603-057-00 -5)	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Skin Sens. 1B (H317)	-	-	-
Cyclohexanamine, 4,4-methylenebis- 1761-71-3	15 - 30	No data available	217-168-8	No data available	-	-	-
1,3-Cyclohexanedim ethanamine 2579-20-6	10 - 25	No data available	219-941-5	No data available	-	1	-
Silica, amorphous, fumed, crystalline-free 112945-52-5	1 - 15	Below import reportable quantity threshold or otherwise exempt.	-	No data available	_	-	-
Phenol, 2,6-bis(1,1-dimethyl ethyl)-4-methyl- 128-37-0	1 - 10	No data available	204-881-4	No data available	<u>-</u>	1	-

If "No data available" is reported in the REACH Registration Number column, then the chemical substance is imported in quantities that are below the REACH registration threshold or are otherwise exempt from registration

Full text of H- and EUH-phrases: see section 16

<sup>&</sup>quot;Below import reportable quantity threshold or otherwise exempt"

### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg		Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Benzyl alcohol 100-51-6	1200+ 1230	2000	4.178	No data available	No data available
Cyclohexanamine, 4,4-methylenebis- 1761-71-3	380	2110	No data available	No data available	No data available
1,3-Cyclohexanedimetha namine 2579-20-6	200	1700	No data available	No data available	No data available
Silica, amorphous, fumed, crystalline-free 112945-52-5	3160	No data available	No data available	No data available	No data available
Phenol, 2,6-bis(1,1-dimethylethyl) -4-methyl- 128-37-0	2930	2000	No data available	No data available	No data available

<sup>+</sup> This value is the harmonized acute toxicity estimate (ATE) listed in CLP Annex VI, Part 3. This harmonized ATE value must be used when calculating the acute toxicity estimate (ATEmix) for classifying a mixture containing the listed substance

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is
----------------	---

required.

**Inhalation** Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel

should) give oxygen. Delayed pulmonary edema may occur.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present

and easy to do. Continue rinsing. Get immediate medical attention.

**Skin contact**Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes. Get immediate medical attention. May cause an allergic skin reaction.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Get immediate medical attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid breathing vapors or mists. Use personal protective equipment as required. See

section 8 for more information.

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

Symptoms Burning sensation. Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in

breathing.

**Effects of Exposure** No information available.

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

**Note to physicians** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause

sensitization in susceptible persons. Treat symptomatically.

## **SECTION 5: Firefighting measures**

5.1. Extinguishing media

surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. Product is or contains a sensitizer. May

cause sensitization by skin contact.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

## SECTION 6: Accidental release measures

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

### 6.1.1- Recommendations for those who intervene directly

No information available.

### 6.1.2.- Recommendations for those who do not intervene directly

No information available.

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Attention! Corrosive material. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.

Other information Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Should not be released into the

environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before

reuse. Avoid breathing vapors or mists.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

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

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Store locked up. Protect from moisture. Store away from other materials.

Storage class (TRGS 510) Storage class 8A.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Benzyl alcohol	-	=	-	TWA: 5.0 mg/m <sup>3</sup>	-
100-51-6					
Silica, amorphous, fumed, crystalline-free 112945-52-5	-	TWA: 4 mg/m <sup>3</sup>	1	1	-
Phenol, 2,6-bis(1,1-dimethylethyl)- 4-methyl-	-	TWA: 10 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> STEL: 50 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>

128-37-0							
Chemical name	Cypr	us	Czech Republic	Denmark	Esto	onia	Finland
Benzyl alcohol 100-51-6	-		TWA: 40 mg/m <sup>3</sup> Ceiling: 80 mg/m <sup>3</sup>	-	-		TWA: 10 ppm TWA: 45 mg/m <sup>3</sup>
Silica, amorphous, fumed, crystalline-free 112945-52-5	-		TWA: 0.1 mg/m <sup>3</sup> TWA: 4.0 mg/m <sup>3</sup>	-	TWA: 2	mg/m³	TWA: 5 mg/m <sup>3</sup>
Phenol, 2,6-bis(1,1-dimethylethyl)- 4-methyl- 128-37-0	-		-	TWA: 10 mg/m³ STEL: 20 mg/m³	-		TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>
Chemical name	Fran	се	Germany TRGS	Germany DFG	Gre	ece	Hungary
Benzyl alcohol 100-51-6	-		TWA: 5 ppm TWA: 22 mg/m³ Sk*	TWA: 22 mg/m <sup>3</sup> TWA: 5 ppm Peak: 44 mg/m <sup>3</sup> Peak: 10 ppm Sk*	-		1
Silica, amorphous, fumed, crystalline-free 112945-52-5	-		TWA: 4 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup> Peak: 0.16 mg/m <sup>3</sup>	-	•	-
Phenol, 2,6-bis(1,1-dimethylethyl)- 4-methyl- 128-37-0	TWA: 10	mg/m³	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> Peak: 40 mg/m <sup>3</sup>	TWA: 10	) mg/m³	-
Chemical name	Irelar	nd	Italy MDLPS	Italy AIDII	Lat		Lithuania
Benzyl alcohol 100-51-6	-		-	-	TWA: 5		TWA: 5 mg/m <sup>3</sup> Sk*
Silica, amorphous, fumed, crystalline-free 112945-52-5	TWA: 6 r TWA: 2.4 STEL: 18 STEL: 7.2	mg/m³ mg/m³ mg/m³	-	1	TWA: 1	mg/m³	-
Phenol, 2,6-bis(1,1-dimethylethyl)- 4-methyl- 128-37-0	TWA: 2 r STEL: 6		-	TWA: 2 mg/m <sup>3</sup>	-		-
Chemical name	Luxemb	ourg	Malta	Netherlands	Nor	way	Poland
Benzyl alcohol 100-51-6	-		-	-	-	•	TWA: 240 mg/m <sup>3</sup>
Silica, amorphous, fumed, crystalline-free 112945-52-5	-		-	-	TWA: 1.9 STEL: 3	3 mg/m <sup>3</sup>	-
Chemical name	Portu	gal	Romania	Slovakia	Slov		Spain
Benzyl alcohol 100-51-6	-		-	-	TWA: 22 TWA: 9 STEL: 4 STEL: 4	5 ppm 10 ppm 4 mg/m³	-
Silica, amorphous, fumed, crystalline-free 112945-52-5	-		-	-	TWA: 4	J	_
Phenol, 2,6-bis(1,1-dimethylethyl)- 4-methyl- 128-37-0	TWA: 2 r	mg/m³	-	-	TWA: 10 STEL: 40	0 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Chemical name			Sweden	Switzerlan		Un	ited Kingdom
Benzyl alcohol 100-51-6			-	TWA: 5 pp TWA: 22 mg Sk*	/m³		-
Silica, amorphous, fumed,			-	TWA: 4 mg/m <sup>3</sup>		TWA: 6 mg/m <sup>3</sup>	

crystalline-free 112945-52-5			TWA: 2.4 mg/m³ STEL: 18 mg/m³ STEL: 7.2 mg/m³
Phenol,	-	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
2,6-bis(1,1-dimethylethyl)-4-methyl- 128-37-0		STEL: 40 mg/m <sup>3</sup>	STEL: 30 mg/m <sup>3</sup>

# Biological occupational exposure limits

Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
Phenol,	-	-	-	7 μg/L - BAR (end of	-
2,6-bis(1,1-dimethylethyl)-				exposure or end of	
4-methyl-				shift) urine	
128-37-0					

## Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
1,3-Cyclohexanedimethanamine	-	0.1 mg/kg bw/day [4] [6]	9.47 μg/m³ [5] [6]
2579-20-6		25.2 mg/kg bw/day [4] [7]	
Phenol,	-	0.5 mg/kg bw/day [4] [6]	3.5 mg/m³ [4] [6]
2,6-bis(1,1-dimethylethyl)-4-methyl-			-
128-37-0			

**Notes** 

[4] Systemic health effects.[5] Local health effects.[6] Long term.

[6] Long term. [7] Short term.

## Derived No Effect Level (DNEL) - General Public

	Chemical name	Oral	Dermal	Inhalation
	Phenol,	-	-	0.86 mg/m <sup>3</sup> [4] [6]
'	2,6-bis(1,1-dimethylethyl)-4-methyl- 128-37-0			

**Notes** 

[4] Systemic health effects.

[6] Long term.

## **Predicted No Effect Concentration (PNEC)**

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
1,3-Cyclohexanedimethan amine 2579-20-6	0.0331 mg/L	0.331 mg/L	0.00331 mg/L	-	-
Phenol, 2,6-bis(1,1-dimethylethyl)- 4-methyl- 128-37-0	0.199 µg/L	1.99 μg/L	0.0199 μg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
1,3-Cyclohexanedimethan		0.0218 mg/kg	10 mg/L	0.0241 mg/kg soil	-
amine	sediment dw	sediment dw		dw	
2579-20-6					
Phenol,	99.6 µg/kg sediment	9.96 µg/kg sediment	0.17 mg/L	47.69 µg/kg soil dw	8.33 mg/kg food
2,6-bis(1,1-dimethylethyl)-	dw	dw			
4-methyl-					
128-37-0					

### 8.2. Exposure controls

**Engineering controls** No information available.

Personal protective equipment

**Eye/face protection** Tight sealing safety goggles. Face protection shield.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

**Respiratory protection** Appropriate respiratory protection should be selected and used according to the chemical

nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be

required.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid

Appearance Viscous Liquid

Color Translucent light yellow

Odor Mild. Amines.

Odor threshold No information available

Property Values Remarks • Method

Melting point / freezing pointNo data availableNone knownInitial boiling point and boiling rangeNo data availableNone knownFlammabilityNo data availableNone knownFlammability Limit in AirNone known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point > 93.333 °C / 200 °F None known

Autoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone knownpHNo data availableNone knownpH (as aqueous solution)No data availableNone knownKinematic viscosityNo data availableNone known

20.000 cPs Dynamic viscosity None known Insoluble in water None known Water solubility None known Solubility(ies) No data available No data available None known **Partition coefficient** No data available None known Vapor pressure Relative density 1.0 - 1.1 None known

Bulk density

Liquid Density

No data available

No data available

**Relative vapor density** > 1 None known

Particle characteristics

Particle Size No information available Particle Size Distribution No information available

### 9.2. Other information

9.2.1. Information with regard to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

## SECTION 10: Stability and reactivity

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

10.4. Conditions to avoid

**Conditions to avoid** Exposure to air or moisture over prolonged periods. Excessive heat.

10.5. Incompatible materials

**Incompatible materials** Acids. Bases. Oxidizing agent.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

## SECTION 11: Toxicological information

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

## Information on likely routes of exposure

### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. Corrosive by inhalation.

(based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs.

Pulmonary edema can be fatal. Harmful by inhalation.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye damage.

(based on components). Corrosive to the eyes and may cause severe damage including

blindness. May cause irreversible damage to eyes.

**Skin contact** Specific test data for the substance or mixture is not available. Corrosive. (based on

components). Causes burns. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May be

absorbed through the skin in harmful amounts. Harmful in contact with skin.

**Ingestion** Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung

damage if swallowed. May be fatal if swallowed and enters airways.

### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing. Itching. Rashes.

Hives.

<u>Acute toxicity</u> Harmful if swallowed. Harmful by skin contact. Harmful by inhalation.

**Numerical measures of toxicity** 

The following ATE values have been calculated for the mixture

ATEmix (oral) 517.90 mg/kg
ATEmix (dermal) 1,949.00 mg/kg
ATEmix (inhalation-dust/mist) 4.18 mg/l

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Benzyl alcohol	= 1230 mg/kg (Rat)	= 2 g/kg (Rabbit)	> 4178 mg/m³ (Rat) 4 h	
Cyclohexanamine, 4,4-methylenebis-	= 380 mg/kg ( Rat )	= 2110 mg/kg (Rabbit)	-	
1,3-Cyclohexanedimethanamine	200 - 2000 mg/kg (Rat)	= 1700 mg/kg (Rabbit)	-	
Silica, amorphous, fumed, crystalline-free	= 3160 mg/kg (Rat)	-	-	
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	> 2930 mg/kg (Rat)	> 2000 mg/kg (Rat)	-	

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes severe skin burns and eye

damage.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye damage. Causes

burns.

**Respiratory or skin sensitization** May cause an allergic skin reaction.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

Reproductive toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Benzyl alcohol	-	LC50: =460mg/L (96h, Pimephales promelas) LC50: =10mg/L (96h, Lepomis macrochirus)	-	EC50: =23mg/L (48h, water flea)
Silica, amorphous, fumed, crystalline-free	EC50: =440mg/L (72h, Pseudokirchneriella subcapitata)	LC50: =5000mg/L (96h, Brachydanio rerio)	-	EC50: =7600mg/L (48h, Ceriodaphnia dubia)
Phenol, 2,6-bis(1,1-dimethylethyl)-4-met hyl-	EC50: =6mg/L (72h, Pseudokirchneriella subcapitata) EC50: >0.42mg/L (72h, Desmodesmus	-	-	-

subspicatus)		

### 12.2. Persistence and degradability

Persistence and degradability No information available.

### 12.3. Bioaccumulative potential

### **Bioaccumulation**

**Component Information** 

Chemical name	Partition coefficient	
Benzyl alcohol	1.05	
Cyclohexanamine, 4,4-methylenebis-	2.2	
1,3-Cyclohexanedimethanamine	0.783	
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	5.1	

### 12.4. Mobility in soil

Mobility in soil No information available.

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the

threshold of declaration.

Chemical name	PBT and vPvB assessment	
Benzyl alcohol	Not PBT/vPvB	
Cyclohexanamine, 4,4-methylenebis-	Not PBT/vPvB	
1,3-Cyclohexanedimethanamine	Not PBT/vPvB	
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	Not PBT/vPvB	

### 12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

### 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## **SECTION 14: Transport information**

IATA

14.1 UN number or ID number 273

**14.2 UN proper shipping name** Amines, liquid, corrosive, n.o.s. (Cycloaliphatic amine, Butyl Hydroxy Toluene)

14.3 Transport hazard class(es) 8
14.4 Packing group ||

14.5 Environmental hazards Marine Pollutant

14.6 Special precautions for user

Special Provisions None

**IMDG** 

14.1 UN number or ID number 2735

**14.2 UN proper shipping name** Amines, liquid, corrosive, n.o.s. (Cycloaliphatic amine, Butyl Hydroxy Toluene)

14.3 Transport hazard class(es) 814.4 Packing group | |

14.5 Environmental hazards Marine Pollutant

14.6 Special precautions for user

**Special Provisions EmS-No.**None
F-A, S-B

14.7 Maritime transport in bulk No information available

according to IMO instruments

RID

**14.1 UN number or ID number** 2735

**14.2 UN proper shipping name** Amines, liquid, corrosive, n.o.s. (Cycloaliphatic amine, Butyl Hydroxy Toluene)

14.3 Transport hazard class(es) 814.4 Packing group | | |

14.5 Environmental hazards Marine Pollutant

14.6 Special precautions for user

Special Provisions None

ADR

14.1 UN number or ID number 2735

**14.2 UN proper shipping name** Amines, liquid, corrosive, n.o.s. (Cycloaliphatic amine, Butyl Hydroxy Toluene)

14.3 Transport hazard class(es) 814.4 Packing group | | |

14.5 Environmental hazards Marine Pollutant

14.6 Special precautions for user

Special Provisions None

## SECTION 15: Regulatory information

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

### National regulations

### **France**

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	
Benzyl alcohol - 100-51-6	RG 84	

### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

### Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH	Substance subject to authorization per
	Annex XVII	REACH Annex XIV
Benzyl alcohol - 100-51-6	75	-

### **Persistent Organic Pollutants**

Not applicable

### Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

### Ozone-depleting substances (ODS) Regulation (EU) 2024/590

Not applicable

Chemical name	EU - Plant Protection Products (1107/2009/EC)	
Silica, amorphous, fumed, crystalline-free - 112945-52-5	Plant protection agent	

### **International Inventories**

**TSCA** Contact supplier for inventory compliance status **DSL/NDSL** Contact supplier for inventory compliance status Contact supplier for inventory compliance status **EINECS/ELINCS** Contact supplier for inventory compliance status **ENCS IECSC** Contact supplier for inventory compliance status Contact supplier for inventory compliance status **KECL PICCS** Contact supplier for inventory compliance status Contact supplier for inventory compliance status AIIC **NZIoC** Contact supplier for inventory compliance status

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**AllC** - Australian Inventory of Industrial Chemicals **NZIoC** - New Zealand Inventory of Chemicals

### 15.2. Chemical safety assessment

Chemical Safety Report No information available

## **SECTION 16: Other information**

Key or legend to abbreviations and acronyms used in the safety data sheet

### Full text of any hazard and/or precautionary statements referred to under Sections 2-15

H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

### Legend

SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT: Specific Target Organ Toxicity

ATE: Acute Toxicity Estimate LC50: 50% Lethal Concentration

LD50: 50% Lethal Dose

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Sk\* Skin designation

+ Sensitizers

Classification procedure		
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used	
Acute oral toxicity	Calculation method	
Acute dermal toxicity	Calculation method	
Acute inhalation toxicity - gas	Calculation method	
Acute inhalation toxicity - vapor	Calculation method	
Acute inhalation toxicity - dust/mist	Calculation method	
Skin corrosion/irritation	Calculation method	
Serious eye damage/eye irritation	Calculation method	
Respiratory sensitization	Calculation method	
Skin sensitization	Calculation method	
Mutagenicity	Calculation method	
Carcinogenicity	Calculation method	
Reproductive toxicity	Calculation method	
STOT - single exposure	Calculation method	
STOT - repeated exposure	Calculation method	
Acute aquatic toxicity	Calculation method	
Chronic aquatic toxicity	Calculation method	
Aspiration hazard	Calculation method	
Ozone	Calculation method	

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

European Chemicals Agency (ECHA) (ECHA\_API)

**Environmental Protection Agency** 

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 02-May-2025

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Disclaimer

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.

**End of Safety Data Sheet** 

Page 17 / 17