



# SAFETY DATA SHEET

SDS No. 1700AEU

Revision Date: January 7, 2023 Version: 1.0  
According to Regulation (EC)  
No. 1907/2006 as amended

## Section 1 - Identification of the substance/mixture and of the company/undertaking

### 1.1 Product Identifier

Trade Name: Part A: Free Form Air HT

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

General Use: Epoxy  
Restrictions on Use: None known

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

Company: Smooth-On, Inc.,  
5600 Lower Macungie Rd., Macungie, PA 18062, USA  
Telephone: Phone (610) 252-5800

E-mail address of person: Visit our website at [www.smooth-on.com](http://www.smooth-on.com) or email  
responsible for the SDS sds@smooth-on.com

### 1.4 Emergency Contact:

Chem-Tel Domestic: 800-255-3924 International: 813-248-0585  
Italy Istituto Superiore di Sanità (ISS) +390649906140

## Section 2 – Hazard(s) Identification

### 2.1 Classification of the substance or mixture:

Classification (REGULATION (EC) No 1272/2008) as amended

H315 Skin Corrosion/Irritation – Category 2  
H317 Skin Sensitization – Category 1  
H319 Eye Irritation – Category 2A  
H412 Chronic Aquatic Toxicity - Category 3

For the full text of the H-Statements mentioned in this Section, see Section 16

### 2.2 Label elements, including precautionary statements

Labelling (REGULATION (EC) No 1272/2008) as amended



Pictogram(s):  
Signal word: Warning

#### Health Hazards

H315 Causes skin irritation  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation

#### Environmental Hazards

H412 Harmful to aquatic life with long lasting effects

**General Precautions**

- P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P103 Read label before use.

**Prevention Precautions**

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P264 Wash with soap and water thoroughly after handling.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response Precautions**

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P337 + P313 If eye irritation persists: Get medical advice/attention.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.

**Disposal Precautions:**

- P501 Dispose of contents/container according to local, state and federal laws.

**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.

**Section 3 - Composition / Information on Ingredients****3.1 Substances/Mixtures****Hazardous ingredients according to Regulation (EC) No 1272/2008**

Chemical name	Classification	Concentration (% w/w)
<b>Phenol-formaldehyde polymer glycidyl ether</b>		
CAS No. 28064-14-4	Skin Sens. 1; H317	50 – 60
<b>2-Ethyl-2-(hydroxymethyl)-1,3- Propanediol polymer with (chloromethyl)oxirane</b>		
CAS No. 30499-70-8	Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; Aquatic Chronic 3; H315, H317, H319, H412	20 – 30

For the full text of the H-Statements mentioned in this Section, see Section 16.

**Section 4 - First Aid Measures****4.1 Description of first aid measures****Inhalation**

Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

**Eye Contact**

Flush eyes with plenty of water. If irritation persists, seek medical attention.

**Skin Contact**

In case of skin contact, wash thoroughly with soap and water.

**Ingestion**

Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

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

None known.

**4.3 Indication of any immediate medical attention and specific treatment needed****Section 5 - Fire-Fighting Measures****5.1 Extinguishing Media**

Water Fog, Dry Chemical, and Carbon Dioxide Foam

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

None known.

**5.3 Advice for firefighters**

Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure demand or positive-pressure mode.

**Section 6 - Accidental Release Measures****6.1 Personal precautions, protective equipment and emergency procedures**

Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.

**6.2 Environmental precautions**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains or unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. No special environmental precautions required.

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

Put on appropriate protective gear including approved self-contained breathing apparatus, rubber boots and heavy rubber gloves. Dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely.

**6.4 Reference to other sections**

See Section 3 for list of Hazardous Ingredients; Sections 8 for Exposure Controls; and Section 13 for Disposal.

**Section 7 - Handling and Storage****7.1 Precautions for safe handling**

Use good general housekeeping procedures. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices.

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

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet local standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

### 7.3 Specific end use(s)

These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

## Section 8 - Exposure Controls / Personal Protection

### 8.1 Control parameters:

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

None defined.

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

None defined.

### 8.2 Exposure controls:

#### Engineering measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### Skin and body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Protective measures

Ensure that eye flushing systems and safety showers are located close to the working place.

## Section 9 - Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties:

<b>Appearance:</b>	Viscous liquid	<b>Vapor pressure:</b>	No data
<b>Odor:</b>	Mild	<b>Vapor density (Air=1):</b>	No data
<b>Odor threshold:</b>	No data	<b>Relative density:</b>	No data
<b>pH:</b>	No data	<b>Solubility in water:</b>	Insoluble
<b>Melting / freezing point:</b>	No data	<b>Partition coefficient (n-octanol/water):</b>	No data
<b>Low / high boiling point:</b>	No data	<b>Auto-ignition temperature:</b>	No data
<b>Flash Point:</b>	>300°F	<b>Decomposition temperature:</b>	No data
<b>Evaporation rate:</b>	No data	<b>Viscosity:</b>	5,000 – 20,000 centipoise
<b>Flammability (solid, gas):</b>	No data	<b>Explosive properties:</b>	No data
<b>Upper/lower flammability or explosive limits:</b>	No data	<b>Specific Gravity (H2O=1, at 4 °C):</b>	1.0 – 1.2

## Section 10 - Stability and Reactivity

### 10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated., No corrosive effect on metal. Not fire propagating.

### 10.2 Chemical stability

These products are stable at room temperature in closed containers under normal storage and handling conditions.

### 10.3 Possibility of hazardous reactions

Hazardous polymerization cannot occur

### 10.4 Conditions to avoid

None known

### 10.5 Incompatible materials

Strong bases and acids

### 10.6 Hazardous decomposition products

Thermal oxidative decomposition can produce carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

## Section 11- Toxicological Information

### 11.1 Information on toxicological effects

#### Acute Toxicity

Component	Result	Species	Dose
<b>Phenol-formaldehyde polymer glycidyl ether</b>			
	LD50 Oral	Rat	>2,000 mg/kg
	LD50 Dermal	Rat	>2,000 mg/kg

**Skin Corrosion/Irritation**

Brief contact may cause slight skin irritation with local redness.

**Serious Eye Damage/Irritation**

May cause slight temporary eye irritation. Corneal injury is unlikely.

**Respiratory/Skin Sensitization**

Maximisation Test - Guinea pig

May cause sensitisation by skin contact.

(OECD Test Guideline 406)

**Germ Cell Mutagenicity**

No data available

**Carcinogenicity**

No component of these products present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC, ACGIH or NTP.

**Reproductive Toxicity**

No data available

**Specific Target Organ Toxicity – Single Exposure**

No data available

**Specific Target Organ Toxicity – Repeated Exposure**

No data available

**Aspiration Hazard**

No data available

**Potential Health Effects – Miscellaneous**

No data available

<b>Section 12 - Ecological Information</b>
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**12.1 Toxicity**

Component	Result	Species	Exposure
<b>Phenol-formaldehyde polymer glycidyl ether</b>			
	LC50 5.7 mg/l	Leuciscus idus (Golden orfe)	96 h
	EC50 3.5 g/ml	Daphnia magna (Water flea)	48 h

**12.2 Persistence and Degradability**

Not readily biodegradable.

**12.3 Bioaccumulative Potential**

No data available

**12.4 Mobility in Soil**

No data available

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other Adverse Effects**

No data available

**Section 13 - Disposal Considerations****13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**Section 14 - Transport Information****14.1 UN number:** none**14.2 UN proper shipping name:** none**14.3 Transport hazard class(es):** not applicable**14.4 Packing group:** not applicable**14.5 Environmental hazards:** none known**14.6 Special precautions for user:** none known**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** not applicable**Section 15 - Regulatory Information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 and EC No. 2020/878.

<b>Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals</b>	: Not applicable
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<b>REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).</b>	: Not applicable
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<b>REACH Annex XIV: REACH Authorization List</b>	: Not applicable
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<b>REACH Annex XVII: REACH Restricted Substance List</b>	: Not applicable
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<b>Regulation (EC) No 2019/1021 on substances that deplete the ozone layer</b>	: Not applicable
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<b>Regulation (EC) No 850/2004 on persistent organic pollutants</b>	: Not applicable
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<b>Seveso III: Directive</b>	: Not applicable
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**15.2 Chemical safety assessment**

No chemical safety assessment has been carried out for this substance/mixture by the supplier.

**16 - Other Information**

Revision Date: January 7, 2023 Version: 1.0

**Full text of H-Statements referred to under Sections 2 and 3.**

**H315** Skin Corrosion/Irritation – Category 2

**H317** Skin Sensitization – Category 1

**H319** Eye Irritation – Category 2A

**H412** Chronic Aquatic Toxicity - Category 3

**Abbreviations and acronyms**

ATE - Acute Toxicity Estimate; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006; EINECS - European Inventory of Existing Commercial Chemical Substances; ELINCS - European List of Notified Chemical Substances; CAS# - Chemical Abstract Service number; PPE - Personal Protection Equipment; Kow - octanol-water partition coefficient; DNEL - Derived No Effect Level; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); NOEC - No Observed Effect Concentration; PNEC - Predicted No Effect Concentration; RMM - Risk Management Measure; OEL - Occupational Exposure Limit; PBT - Persistent, Bioaccumulative and Toxic; vPvB - Very Persistent and Very Bioaccumulative; STOT - Specific Target Organ Toxicity; CSA - Chemical Safety Assessment; EN - European Standard; UN - United Nations; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; WGK - Water Hazard Class

**Disclaimer**

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