



Material Safety Data Sheet

XTC-3D[®] Epoxy Coating

MSDS No. 1123

Date Of Preparation: August 26, 2014

Revision: 0001

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: XTC-3D[®] Epoxy Coating Part A
Other Designations: Formulated Epoxy Coating
General Use: Surface Coat Epoxy Resin
Manufacturer: Smooth-On Inc., 2000 St. John St., Easton PA 18042
 Phone (610) 252-5800, FAX (610) 252-6200
Emergency Contact: Chem-Tel
 Domestic 800-255-3924
 International 813-248-0585

Section 2- Hazards Identification

Not hazardous according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) and Council directive 1999/45/EC and its subsequent amendments.

HMIS	
H	1
F	1
R	0

Section 3 - Composition / Information on Ingredients

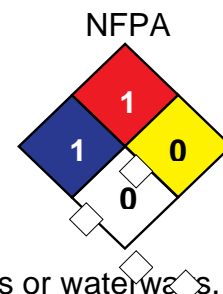
No hazardous ingredients

Section 4 - First Aid Measures

Inhalation: Remove to fresh air: if breathing is labored seek medical attention.
Eye Contact: Flush with water for 15 minutes: seek medical attention
Skin Contact: Remove with soap and water: if redness or rash develops seek medical attention: Launder contaminated clothing before reuse.
Ingestion: seek medical attention
After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5 - Fire-Fighting Measures

Flash Point: >485 °F (252 °C)
Flash Point Method: PMCC
Flammability Classification: Non-Flammable
Extinguishing Media: Foam, Dry Chemical, and Carbon Dioxide
Unusual Fire or Explosion Hazards: None
Hazardous Combustion Products: Oxides of Nitrogen and Carbon, Acids and Aldehydes when burned.
Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.
Fire-Fighting Equipment: 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

Spill /Leak Procedures

Containment: Dike and contain for later disposal. Do not release into sewers or waterways.

Cleanup: Scrape up excess.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Avoid prolonged or repeated skin contact. Use good general housekeeping procedures.

Storage Requirements: Store in closed containers. Use only with adequate ventilation.

Section 8 - Exposure Controls / Personal Protection

Respiratory Protection: Follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.



Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Water-White to Yellow; Faint Epoxy Odor

Vapor Pressure: None (Polymeric Resin)

Vapor Density (Air=1): None (Polymeric Resin)

Specific Gravity (H₂O=1, at 4 °C): 1.14

Water Solubility: negligible

Boiling Point: None (Polymeric Resin)

Freezing/Melting Point: None (Polymeric Resin)

Evaporation Rate: None (Polymeric Resin)

Viscosity: 10 poise

Section 10 - Stability and Reactivity

Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: Strong oxidizing agents, strong Lewis or mineral acids.

Conditions to Avoid: Mixing with Amines under uncontrolled conditions.

Hazardous Decomposition Products: Thermal oxidative decomposition of Epoxy Resin EEW-190 can produce: Oxides of Nitrogen and Carbon, Acids and Aldehydes when burned.

Section 11- Toxicological Information

Eye Effects: Irritation
Skin Effects: Irritation

Carcinogenicity: None
Mutagenicity: None Determined
Teratogenicity: None Determined

Section 12 - Ecological Information

None Determined

Section 13 - Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Section 14 - Transport Information

DOT
 Not Regulated

IATA
 Not Regulated

IMDG
 Not Regulated

Section 15 - Regulatory Information

EPA Regulations: This material is not considered a hazardous material.

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33): None

RCRA Hazardous Waste Classification (40 CFR 261): Not classified

CERCLA Hazardous Substance (40 CFR 302.4) unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112

CERCLA Reportable Quantity (RQ), None

SARA 311/312 Codes: None

SARA Toxic Chemical (40 CFR 372.65): None

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed,

TSCA Inventory Status (40CFR710): All components of this formula are on the TSCA inventory

California Proposition 65: This product does not contain any chemicals which have been identified by the state of California to cause cancer, birth defects or other reproductive harm.

16 - Other Information

Disclaimer: The information contained in this MSDS is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Smooth-On Inc., it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Directive 1907/2006/EEC (REACH). Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) or the European Union (EU/EEC) directive 1907/2006/EEC and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation), and European Union Directives



Material Safety Data Sheet

XTC-3D[®] Epoxy Coating

MSDS No. 1123

Date Of Preparation: August 26, 2014

Revision: 0001

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: XTC-3D[®] Epoxy Coating Part B
Other Designations: Curing Agent, Epoxy Coating
General Use: Surface Coat Epoxy Resin
Manufacturer: Smooth-On Inc., 2000 St. John St., Easton PA 18042
 Phone (610) 252-5800, FAX (610) 252-6200
Emergency Contact: Chem-Tel
 Domestic 800-255-3924
 International 813-248-0585

Section 2- Hazards Identification

Hazard Designation:

Europe



C: Corrosive



T: Toxic

Canada



HMIS	
H	3
F	1
R	0

Risk Phrases pertaining to particular dangers

R20/22: Harmful inhalation and if swallowed

R34: Causes burns.

R43: May cause sensitization by skin contact

R51/53: Toxic to aquatic organisms, may cause long-term effects in the aquatic environment

Classified according to Articles 6 & 7 Directive 1999/45/EC

Section 3 - Hazards Identification

Component	ACGIH TWA	Exposure Limits OSHA PEL	Hazard Designation	Weight Percent (%)
trimethylhexamethylenediamine CAS No.: 25620-58-0 EC No.: 247-134-8	none established	none established	C	>25
1,3-benzenemethaneamine CAS No.: 1477-55-0 EC No.: 216-032-5	none established	0.1 mg/m ³ ceiling	 T	<30
nonyl phenol CAS No.: 84852-15-3 EC No.: 284-325-5	none established	none established	 T	<5

Section 4 - First Aid Measures

Inhalation: If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

Eye Contact: Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.

Skin Contact: Immediately remove contaminated clothing and any extraneous chemical, if possible to do so without delay. Flush immediately with copious amounts of water. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing. Take off contaminated clothing and shoes immediately.

Ingestion: Do not induce vomiting without medical advice. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5 - Fire-Fighting Measures

Flash Point: >199.99 °F (>93.33 °C) PMCC

NFPA

Flammability Classification: Combustible Liquid, Class IIIB

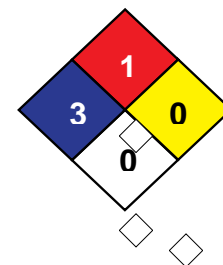
Extinguishing Media: Foam, Dry Chemical, Carbon Dioxide, Dry Sand, Limestone Powder

Unusual Fire or Explosion Hazards: None

Hazardous Combustion Products: May generate Ammonia gas, Oxides of Nitrogen and Carbon when burned. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: 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

Spill /Leak Procedures

Personal precautions: Wear suitable protective clothing, gloves and eye/face protection. Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.

Containment: Dike and contain for later disposal. Do not release into sewers or waterways.

Cleanup: Clean-up personnel must be equipped with self-contained breathing apparatus and butyl rubber protective clothing.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Avoid prolonged or repeated eye and skin contact. Avoid breathing vapors and use only with adequate ventilation. Use good general housekeeping procedures.

Storage Requirements: Keep away from oxidizers. Store in closed containers. Use only with adequate ventilation.

Section 8 - Exposure Controls / Personal Protection

Respiratory Protection: Follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, and aprons to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.



Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics .

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Amber liquid, fishy odor

Viscosity: 9.5 cSt @ 77°F (25°C)

Vapor Density (Air=1): >1

Specific Gravity (H₂O=1, at 4 °C): 0.97

Water Solubility: < 1 g/l

Boiling Point: 446 °F (230 °C)

Freezing/Melting Point: No Data

VOC content: 25%

pH: alkaline

Section 10 - Stability and Reactivity

Stability: This material is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Under normal conditions hazardous polymerization cannot occur.

Chemical Incompatibilities: Reactive metals (e.g. sodium, calcium, zinc etc.);

CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrates, or atmospheres with high nitrous oxide concentrations; Nitrous acid and other nitrosating agents; Organic acids (i.e. acetic acid, citric acid etc.); Mineral acids; Sodium hypochlorite; product slowly corrodes copper, aluminum, zinc and galvanized surfaces; Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion; Oxidizing agents.

Hazardous Decomposition Products: Thermal oxidative decomposition of can produce: nitric acid, ammonia, nitrogen oxides (NO_x), nitrogen oxide can react with water vapors to form corrosive nitric acid, carbon monoxide, carbon dioxide, aldehydes, flammable hydrocarbon fragments, nitrosamine.

Section 11- Toxicological Information

Eye Effects: severe eye irritation
Skin Effects: severe skin irritation, corrosive to the skin of a rabbit; may cause sensitization by skin contact

Acute Toxicity Effects Data:

Oral LD50 (rat): 1,750 mg/kg
 Dermal LD50 (rabbit): >2,000 mg/kg (rabbit, estimated)
 Inhalation: No data available

Mutagenicity: This product may be mutagenic, the data is inconclusive.
Teratogenicity: No Data

Section 12 - Ecological Information

Aquatic Toxicity: No data is available on the product itself.

Toxicity to fish – Components

nonyl phenol	LC50 (96 h): 0.128 mg/l	fathead minnow (Pimephales promelas)
trimethylhexamethylenediamine	LC50 (48 h): 172 mg/l	golden orfe (Leuciscus idus)

Toxicity to Daphnia – Components

nonyl phenol	EC50 (48 h): 0.0848 mg/l	Daphnia
nonyl phenol	EC50 (48 h): 0.19 mg/l	Daphnia
trimethylhexamethylenediamine	EC50 (24 h): 31.5 mg/l	Daphnia magna

Toxicity to algae – components

1,3-benzenemethanamine	EC50 (72 h): 12 mg/l	Scenedesmus subspicatus
trimethylhexamethylenediamine	EC50 (72 h): 29.5 mg/l	Desmodesmus subspicatus

Biodegradability

trimethylhexamethylenediamine – not readily biodegradable

Mobility

No data available.

Bioaccumulation

No data available on product.

Bioaccumulation

nonyl phenol: moderate bioaccumulation potential.

Section 13 - Disposal Considerations

Waste from residues /
unused products

This product should not be allowed to enter drains, water courses or the soil; dispose of this material and its container in a safe way. Contact supplier if guidance is required.

Contaminated packaging

Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14 - Transport Information

DOT

Shipping Name:

Amines, liquid, corrosive n.o.s.
(1,3-benzenemethanamine,
trimethylhexamethylenediamine)

UN 2735**Hazard Class: 8****Packing Group: II****Label:** Corrosive

IATA

Shipping Name:

Amines, liquid, corrosive n.o.s.
(1,3-benzenemethanamine,
trimethylhexamethylenediamine)

UN 2735**Hazard Class: 8****Packing Group: II****Label:** Corrosive, Marine
Pollutant

IMDG

Shipping Name:

Amines, liquid, corrosive n.o.s.
(1,3-benzenemethanamine,
trimethylhexamethylenediamine)

UN 2735**Hazard Class: 8****Packing Group: II****Label:** Corrosive, Marine
Pollutant

Section 15 - Regulatory Information

EPA REGULATIONS:**SARA 312 (40 CFR #70) Hazard Classification:** Acute Health Hazard**SARA Title III Section 313 (40 CFR 372):** None**TSCA Inventory Status (40CFR710):** All components of this formula are on the TSCA inventory**California Proposition 65:** This product does not contain any chemicals which have been identified by the state of California to cause cancer, birth defects or other reproductive harm.**CANADIAN REGULATIONS:**

WHMIS Identification: Class E: Corrosive

CDSL/NDL (Canadian Domestic Substance List/Non Domestic Substance List): **Listed on CDSL****Labeling according to EEC Directive**

Risk Phrases	Symbol(s) Required for EU Label	Safety Phrases
R20/22: Harmful inhalation and if swallowed R34: Causes burns. R43: May cause sensitization by skin contact R51/53: Toxic to aquatic organisms, may cause long-term effects in the aquatic environment	 (C: Corrosive) (T: Toxic)	S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S36/37/39: Wear suitable protective clothing, gloves, and eye face/protection. S45: In case of an accident or if you feel sick, seek medical attention. S61: Avoid release to the environment.

16 - Other Information

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