



Made in the United States of America

Conductive Solvent-Free Epoxy Adhesive Application Instructions & Safety Data Sheets



Figure 1. 8453 Conductive Epoxy Adhesive

Description

Statguard® Conductive Solvent-Free Reactive Epoxy is a two-part urethane flooring adhesive with low volatile organic compounds (VOCs). It is designed for the installation of Statguard 8400 Series Tile. All Safety Data Sheets (SDS) and installation instructions must be read, fully understood and followed.

Technical Data

Laboratory Tests	Results
Polymer type	Epoxy
Percent solids	90% to 100%
VOC's (Rule #1168 of California's SCAQMD)	8 g/L
Pot life	40 minutes
Trowelability	Light, easy
Conductivity	0.21 x 10 ⁵ (ohm) (10V)
Color	Black
Shelf life	1-year when stored in original packaging at 73°F (23°C)
Storage conditions	40°F to 100°F (4°C to 38°C)
Flash point	
Part A	>200°F (93°C)
Part B	>200°F (93°C)
Protect from traffic	24 hours for light traffic, 72 hours for heavy traffic

Features and Benefits

- Excellent Electrical – less than 1×10^6 ohms, per ANSI/ESD STD11.12
- Superior indentation resistance
- Fast-setting with easy trowelability
- Superior bond strength

Industry Standards and Approvals

- RFCI IP #1 – Recommended Installation Practice for Homogeneous Sheet Flooring, Fully Adhered
- RFCI IP #2 – Recommended Installation Practice for Vinyl Composition Tile (VCT)
- RFCI's Recommended Work Practices for Removal of Resilient Floor Coverings

Where to Use

- Interior commercial
- Interior heavy commercial
- Interior institutional

Limitations

- Do not install over any substrates containing asbestos
- Do not install when the moisture vapor emission rate (MVER) exceeds 5lbs. per 1,000 sq. ft. (2.27 kg per 92.9 m²) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869)
- Do not install with relative humidity of concrete slabs exceeds 80% (ASTM F2170)
- Use only when the substrate temperature is between 65°F and 85°F (18°C and 29°C)

Suitable Substrates

- Concrete and properly prepared cement terrazzo
- Cement-based self-leveling underlayments and patching compounds
- Approved wood underlayments (per manufacturer recommendations)
- Embossing levelers applied over existing, properly prepared and fully bonded ceramic tile
- A single layer of properly prepared, fully bonded VCT
- Properly prepared and primed gypsum underlayments that meet the requirements for compressive strength according to ASTM F2419
- Consult Statguard Flooring Customer Service for installation recommendations regarding substrates and conditions not listed.

Preparation:

- All subfloors shall be permanently dry, clean, smooth and structurally sound as per ASTM F710.
- Moisture testing following the protocol of ASTM F2170 – Standard Test Method for Determining Relative Humidity in Concrete Slabs using in situ Probes.
- The maximum allowable relative humidity (RH) is 80%, tested at the correct service temperature and ambient humidity.

Grounding:

- Statguard Flooring recommends installing one copper grounding strip per 1,000 square feet throughout the installation.
- A thin coating of adhesive should be applied on top of grounding strip to ensure good contact with tile backing

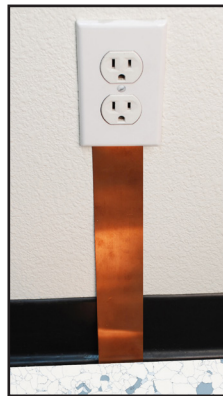


Figure 2. 81524
Grounding Strip In Use

Installation:

- Wear all appropriate safety equipment to avoid skin contact during mixing, application and cleaning. The curing of two-part reactive adhesives is sensitive to temperature; heat will speed up the curing process while colder temperatures will slow it down.
- Pour all material out of the Part B (liquid) container into Part A (paste). Place the cap back on the Part B container and turn the container upside-down to ensure that all remaining material drains into the cap. Pour the remaining material into Part A.
- Mix Part A and Part B materials until homogenous (without streaks), using a slow-speed drill fitted with a suitable mixing spindle*. **Note:** Do not partial-mix units.
- Use the correct notch trowel for the selected flooring and follow the installation instructions. Replace all worn trowels to ensure proper spread rate; do not re-notch.
- Do not spread more adhesive than can be covered with floor covering within 30 minutes. After spreading the adhesive, immediately install the flooring material into the adhesive while it is still fresh. Periodically lift the material to confirm proper adhesive transfer to the backing



Figure 3. *Recommended
Spindle: [MixIt Tool](#)
by BuddyTools LLC

- Roll the flooring surface across the width and length with the manufacturer's recommended roller to break down adhesive ridges and to ensure complete removal of trapped air. Multiple rolling may be required to maintain proper flooring placement during cure.

Cleanup:

- Remove any fresh adhesive from the surface and tools with mineral spirits.
- Once cured, the adhesive may not be removed without damaging the flooring.

Note: Refer to technical and safety data sheets for complete information regarding uses, application, limitations and safety.

Application Table

Application Characteristics Over Porous Substrates		
Pot Life	Flash Time*	Working Time**
40 minutes	15-30 minutes	30 minutes

* Flash time is the waiting time required before installing flooring.

** Working time is the window of time for the adhesive to accept flooring.

Note: Flash time and working times may vary based on temperature, humidity, substrate porosity, trowel size and jobsite conditions.

Approximate Product Coverage

Flooring Type	Typical Trowel	Coverage*
Statguard Flooring, Solid Vinyl Sheet, Tile & Plank, Vinyl Composition Tile	1/32" x 1/16" x 1/32" U-Notch (1 x 1,5 x 1 mm)	185 to 245 sq. ft. per U.S. gal. 4,53 to 6.0 m2 per L)

* Trowel dimensions are depth/width/space.

Coverages shown are for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions, type of trowel used and setting practices.

RoHS, REACH, and Conflict Minerals Statement

See the Desco Industries RoHS, REACH, and Conflict Minerals Statement:

[DescoIndustries.com/ROHS.aspx](https://www.descoindustries.com/ROHS.aspx)

Desco Industries Limited Warranty

See the Desco Industries Limited Warranty:

[DescoIndustries.com/Warranty.aspx](https://www.descoindustries.com/Warranty.aspx)

SAFETY DATA SHEET

May be used to comply with OSHA Hazcom 29 CFR 1910.1200 and Reg. (EU) No.453/2010 Standards must be consulted for specific requirements.

Revision Date: 2018-06-20

SECTION 1 — IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product Name: Statguard Flooring 8453 Conductive Epoxy Adhesive, Part A
EC No.: None
REACH Registration No.: None
CAS No.: None

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

Identified use: Epoxy resins

1.3 Details of the supplier of the safety data sheet

Supplier: DESCO INDUSTRIES INC
One Colgate Way
Canton, MA 02021
781-821-8370
Email Address: Service@StatguardFlooring.com

1.4 Emergency telephone number

Emergency Number: 781-821-8370
Office Hours: 8:00 AM - 5:00 PM

SECTION 2 — HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Skin Corrosion/Irritation	Category 2
Eye Irritation	Category 2A
Skin Sensitization	Category 1A
Aquatic Acute	Category 3
Aquatic Chronic	Category 2

2.2 Label elements

Symbol: Exclamation mark. Environmental Hazard.

Signal word: Warning

Hazard statement: (H315): Causes skin irritation.
(H317): May cause an allergic skin reaction.
(H319): Causes serious eye irritation.
(H402): Harmful to aquatic life.
(H411): Toxic to aquatic life with long lasting effects.

Precautionary statements: (P261): Avoid breathing dust/fume/gas/mist/vapors/spray.
(P264): Wash hands thoroughly after handling.
(P272): Contaminated work clothing should not be allowed out of the workplace.
(P273): Avoid release to the environment.
(P280): Wear protective gloves/protective clothing/eye protection/face protection.
(P302 + P352): IF ON SKIN: Wash with plenty of 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.
(P321): Specific treatment (see supplementary instructions on this label).
(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.
(P391): Collect spillage.
(P501): Dispose of contents/container in accordance with applicable regulations.

2.3 Other hazards

None

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

Components	CAS No.	%wt.	Classification
Bisphenol A epoxy resin	25085-99-8	25 - 50%	Skin Irrit. 2A, H315 Eye Irrit. 2A, H319 Aquatic Chronic 2, H411 Skin Sens. 1B, H317
Benzyl alcohol	100-51-6	10 - 20%	Acute Tox. 4, H302 Acute Tox. 4, H332 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Chloromethyl)oxirane, 4, 4'-(1-methylethylidene)bisphenol copolymer	25068-38-6	10 - 20%	Eye Irrit. 2A, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Alkyl epoxy resin	68609-97-2	5 - 10%	Skin Irrit. 2, H315 Skin Sens. 1, H317
Dipropylene glycol dibenzoate	27138-31-4	2.5 - 5%	Aquatic Chronic 3, H412
Caster oil glycidyl ether	74398-71-3	1 - 2.5%	Skin Irrit. 2, H315 Skin Sens. 1A, H317

SECTION 4 — FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact	After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Protect uninjured eye.
Skin Contact	Immediately take off all contaminated clothing. OBTAIN IMMEDIATE MEDICAL ATTENTION. Obtain medical attention if skin related symptoms persist. Remove contaminated clothing immediately and dispose of safely. After contact with skin, wash immediately with soap and plenty of water.
Ingestion	Do not induce vomiting, get medical attention showing the SDS and the hazard label.
Inhalation	Remove casualty to fresh air and keep warm and at rest.

4.2 Most important symptoms and effects, both acute and delayed

Eye irritation
Eye damages
Skin Irritation
Erythema

4.3 Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5 — FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media Water. Carbon dioxide (CO2).
Unsuitable Extinguishing Methods None in particular

5.2 Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.
Hazardous combustion products: N/A
Explosive properties: N/A
Oxidizing properties: N/A

5.3 Advice for firefighters

Use suitable breathing apparatus.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.

6.2 Environmental precautions

N/A

6.3 Methods and materials for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand
Wash with plenty of water.

6.4 Reference to other sections

See SECTION 13, Disposal Considerations, for information regarding the disposal of contained spills.

SECTION 7 — HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapors and mists.
Exercise the greatest care when handling or opening the container.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature: N/A
Incompatible materials: None in particular.
Instructions as regards storage premises: Adequately ventilated premises.

7.3 Specific end uses

N/A

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

No Data Available

8.2 Exposure controls

Individual protection measures

Eye/Face Protection Use close fitting safety goggles, don't use eye lens.

Skin Protection	Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
Hand Protection	Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
Respiratory Protection	N/A

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance and color:	Paste black
Odor:	Characteristic
Odor threshold:	N/A
pH:	N/A
Melting point / freezing point:	N/A
Initial boiling point and boiling range:	N/A
Flash point:	94.0 °C (201.2 °F)
Evaporation rate:	N/A
Upper/lower flammability or explosive limits:	N/A
Vapor density:	N/A
Vapor pressure:	N/A
Relative density:	1.31 g/cm ³
Solubility in water:	N/A
Solubility in oil:	N/A
Partition coefficient (n-octanol/water):	N/A
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A
Viscosity:	N/A
Explosive properties:	N/A
Oxidizing properties:	N/A
Solid/gas flammability:	N/A

9.2 Other information

Substance groups relevant properties:	N/A
Miscibility:	N/A
Fat Solubility:	N/A
Conductivity:	N/A

SECTION 10 — STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Data not Available

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

Stable under normal conditions.

10.5 Incompatible materials

None in particular.

10.6 Hazardous decomposition products

None

SECTION 11 — TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicological information of the mixture: There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

Benzyl alcohol LD50 = 2000,00000 mg/kg (Skin Rabbit)
LC50 = 8,80000 mg/L 4h (Inhalation Rat)
LD50 = 1230 mg/kg (Oral Rat)

(Chloromethyl)oxirane, 4,4'-(1-methylethylidene)bisphenol copolymer LD50 = 11400 mg/kg (Oral Rat)

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) Acute toxicity
- b) Skin corrosion/irritation
- c) Serious eye damage/irritation
- d) Respiratory or skin sensitisation
- e) Germ cell mutagenicity
- f) Carcinogenicity
- g) Reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) Aspiration hazard

Substance(s) listed on the IARC Monographs:

None

Substance(s) listed as OSHA Carcinogen(s):

None

Substance(s) listed as NIOSH Carcinogen(s):

None

Substance(s) listed on the NTP report on Carcinogens:

None

SECTION 12 — ECOLOGICAL INFORMATION

12.1 Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of components with eco-toxicological properties:

Quantity	Component	CAS#	Ecotoxicity Info.
10 - 25%	Benzyl alcohol	100-51-6	LC50 = 460mg/L 96h EPA (Fish Pimephales promelas) LC50 = 10 mg/L 96h EPA (Fish Lepomis macrochirus) EC50 = 23 mg/L 48h (Daphnia water flea)

12.2 Persistence and degradability

N/A

12.3 Bioaccumulative potential

N/A

12.4 Mobility in soil

N/A

12.5 Results of PBT and vPvB assessment

N/A

12.6 Other adverse effects

N/A

12.7 Additional information

N/A

SECTION 13 — DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

13.2 Additional information

N/A

SECTION 14 — TRANSPORT INFORMATION

14.1 UN Number

ADR-UN number:	3082
DOT-UN Number:	UN3082
IATA-Un number:	3082
IMDG-Un number:	3082

14.2 UN proper shipping name

ADR-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A epoxy resin - (Chloromethyl)oxirane, 4,4'-(1-methylethylidene)bisphenol copolymer)
DOT-Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A epoxy resin - (Chloromethyl)oxirane, 4,4'-(1-methylethylidene)bisphenol copolymer)
IATA-Technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A epoxy resin - (Chloromethyl)oxirane, 4,4'-(1-methylethylidene)bisphenol copolymer)
IMDG-Technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A epoxy resin - (Chloromethyl)oxirane, 4,4'-(1-methylethylidene)bisphenol copolymer)

14.3 Transport hazard class(es)

ADR - Class:	9
DOT - Hazard Class:	9
IATA - Class:	9
IMDG - Class:	9

14.4 Packing group

ADR - Packing group:	III
DOT - Packing group:	III
IATA - Packing group:	III
IMDG - Packing group:	III

14.5 Environmental hazards

Marine pollutant:	Yes
Environmental Pollutant:	N/A

14.6 Special precautions for user

- **Department of Transportation (DOT)**

Special Provision(s):	8, 146, 173, 335, IB3, T4, TP1, TP29
Label(s):	9
Symbol:	N/A
Cargo Aircraft:	N/A
Passenger Aircraft:	N/A
Bulk:	N/A

Non-Bulk: N/A

- **Road and Rail (ADR-RID)**

Exempt: N/A
Label: 9
Hazard identification number: 90
Transport category (Tunnel restriction code): 3 (E)

- **Air (IATA)**

Passenger Aircraft: 964
Cargo Aircraft: 964
Label: 9
Subrisk: -
Erg: 9L
Special Provisions: A97 A158 A197

- **Sea (IMDG)**

Stowage Code: Category A
Stowage Note: -
Subrisk: -
Special Provision: 274 335
Page: N/A
Label: N/A
EMS: F-A, S-F
MFAG: N/A

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

N/A

SECTION 15 — REGULATORY INFORMATION

USA - FEDERAL REGULATIONS

TSCA - Toxic Substances Control Act		
TSCA Inventory:	All the components are listed on the TSCA inventory	
Bisphenol A epoxy resin	is listed in TSCA	Section 8b
Benzyl alcohol	is listed in TSCA	Section 8b
(Chloromethyl)oxirane, 4, 4'-(1-methylethylidene)bisphenol copolymer	is listed in TSCA	Section 8b
Alkyl epoxy resin	is listed in TSCA	Section 8b
Dipropylene glycol dibenzoate	is listed in TSCA	Section 8b
Caster oil glycidyl ether	is listed in TSCA	Section 8b
SARA - Superfund Amendments and Reauthorization Act		
Section 302 - Extremely Hazardous Substances:	no substances listed	
Section 304 - Hazardous substances:	no substances listed	
Section 313 - Toxic chemical list:	no substances listed	
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act		
Substance(s) listed under CERCLA:	no substances listed	
CAA - Clean Air Act		
Benzyl alcohol	is listed in CAA	Section 112(b) - HON

CWA - Clean Water Act

CWA listed substances:	no substances listed
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USA - STATE SPECIFIC REGULATIONS

	Substance(s) listed under regulation(s)
California Proposition 65	no substances listed
Massachusetts Right to know	Benzyl alcohol
Pennsylvania Right to know	Benzyl alcohol
New Jersey Right to know	no substances listed

CANADA - FEDERAL REGULATIONS

DSL - Domestic Substances List	All the substances are listed in the DSL.
NDSL - Non Domestic Substances List	No substance listed
NPRI - National Pollutant Release Inventory	No substance listed

SECTION 16 — OTHER INFORMATION

HMIS RATING: Health 1, Flammability 1, Physical Hazard 0, Personal Protection B

NFPA RATING: Special Hazard: N/A, Health: 1, Flammability: 1, Instability: 0

SDS Updated: 2018-06-20

Disclaimer

OTHER INFORMATION: This 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 other process. Such information is to the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

SAFETY DATA SHEET

May be used to comply with OSHA Hazcom 29 CFR 1910.1200 and Reg. (EU) No.453/2010 Standards must be consulted for specific requirements.

Revision Date: 2018-06-20

SECTION 1 — IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product Name: Statguard Flooring 8453 Conductive Epoxy Adhesive, Part B
EC No.: None
REACH Registration No.: None
CAS No.: None

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

Identified use: Hardener for epoxy products

1.3 Details of the supplier of the safety data sheet

Supplier: DESCO INDUSTRIES INC
One Colgate Way.
Canton, MA 02021
781-821-8370
Email Address: Service@StatguardFlooring.com

1.4 Emergency telephone number

Emergency Number: 781-821-8370
Office Hours: 8:00 AM - 5:00 PM

SECTION 2 — HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Acute Toxicity (Oral)	Category 4
Serious Eye Damage	Category 1
Skin Corrosive	Category 1B
Skin Sensitisation	Category 1A

2.2 Label elements

Symbol: Corrosive. Exclamation mark.
Signal word: Danger.
Hazard statement: (H302): Harmful if swallowed.
(H314): Causes severe skin burns and eye damage.
(H317): May cause an allergic skin reaction.
(H318): Causes serious eye damage.
Precautionary statements: (P260): Do not breathe mist/vapors/spray.
(P264): Wash skin thoroughly after handling.
(P270): Do not eat, drink or smoke when using this product.
(P272): Contaminated work clothing should not be allowed out of the workplace.
(P280): Wear protective gloves/protective clothing/eye protection/face protection.
(P301 + P312): IF SWALLOWED: Call a POISON CENTER if you feel unwell.
(P301 + P330 + P331): IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
(P303 + P361 + P353): IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
(P304 + P340): IF INHALED: Remove person to fresh air and keep comfortable for breathing.

(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 doctor.
(P321): Specific treatment (see supplementary instructions on this label).
(P333 + P313): If skin irritation or rash occurs: Get medical advice/attention.
(P362 + P364): Take off contaminated clothing and wash it before reuse.
(P405): Store locked up.
(P501): Dispose of contents/container in accordance with applicable regulations.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

Components	CAS No.	%wt.	Classification
Amides, from methyl epoxyhydroxyoctadecanoate, tetraethylenepentamine and vegetable-oil fatty acids	68443-08-3	75 - 100%	Acute Tox. 4, H302 Skin Corr. 1B, H314
2,4,6-Tri(dimethylaminomethyl)phenol	90-72-2	5 - 10%	Skin Corr. 1B, H314 Skin Sens. 1A, H317 Aquatic Chronic 3, H412
Bis[(dimethylamino)methyl]phenol	71074-89-0	1 - 2.5%	Skin Corr. 1B, H314

SECTION 4 — FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact	Immediately take off all contaminated clothing. OBTAIN IMMEDIATE MEDICAL ATTENTION. Obtain medical attention if skin related symptoms persist. Remove contaminated clothing immediately and dispose of safely. After contact with skin, wash immediately with soap and plenty of water.
Skin Contact	After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Protect uninjured eye.
Ingestion	Give nothing to eat or drink.
Inhalation	Remove casualty to fresh air and keep warm and at rest.

4.2 Most important symptoms and effects, both acute and delayed

Eye irritation
Eye damages
Skin Irritation
Erythema

4.3 Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5 — FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media Water. Carbon dioxide (CO2).
Unsuitable Extinguishing Methods None in particular.

5.2 Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

Hazardous combustion products: N/A
Explosive properties: N/A
Oxidizing properties: N/A

5.3 Advice for firefighters

Use suitable breathing apparatus.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.

6.2 Environmental precautions

N/A

6.3 Methods and materials for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand
Wash with plenty of water.

6.4 Reference to other sections

See SECTION 13, Disposal Considerations, for information regarding the disposal of contained spills.

SECTION 7 — HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapors and mists.
Exercise the greatest care when handling or opening the container.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature: N/A (Always keep in a well ventilated place.)
Incompatible materials: None in particular.
Instructions as regards storage premises: Adequately ventilated premises.

7.3 Specific end uses

N/A

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

No Data Available

8.2 Exposure controls

N/A

Individual protection measures

Eye/Face Protection	Use close fitting safety goggles, don't use eye lens.
Skin Protection	Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
Hand Protection	Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
Respiratory Protection	Use adequate protective respiratory equipment.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance and color:	Amber
Odor:	Characteristic
Odor threshold:	N/A
pH:	N/A
Melting point / freezing point:	N/A
Initial boiling point and boiling range:	N/A
Flash point:	94.0 °C (201.2 °F)
Evaporation rate:	N/A
Upper/lower flammability or explosive limits:	N/A
Vapor density:	N/A
Vapor pressure:	N/A
Relative density:	0.97 g/cm ³
Solubility in water:	N/A
Solubility in oil:	N/A
Partition coefficient (n-octanol/water):	N/A
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A
Viscosity:	N/A
Explosive properties:	N/A
Oxidizing properties:	N/A
Solid/gas flammability:	N/A

9.2 Other information

Substance groups relevant properties:	N/A
Miscibility:	N/A
Fat Solubility:	N/A
Conductivity:	N/A

SECTION 10 — STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions

10.2 Chemical stability

Data not available

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

Stable under normal conditions

10.5 Incompatible materials

None in particular

10.6 Hazardous decomposition products

None

SECTION 11 — TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicological information of the mixture: There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

2,4,6-Tri(dimethylaminomethyl) phenol	LD50 = 1280 mg/kg (Skin Rat)
	LD50 = 1000 mg/kg (Oral Rat)

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) Acute toxicity
- b) Skin corrosion/irritation
- c) Serious eye damage/irritation
- d) Respiratory or skin sensitisation
- e) Germ cell mutagenicity
- f) Carcinogenicity
- g) Reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) Aspiration hazard

Substance(s) listed on the IARC Monographs:

None

Substance(s) listed as OSHA Carcinogen(s):

None

Substance(s) listed as NIOSH Carcinogen(s):

None

Substance(s) listed on the NTP report on Carcinogens:

None

SECTION 12 — ECOLOGICAL INFORMATION

12.1 Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information: No Data Available

12.2 Persistence and degradability

N/A

12.3 Bioaccumulative potential

N/A

12.4 Mobility in soil

N/A

12.5 Results of PBT and vPvB assessment

N/A

12.6 Other adverse effects

N/A

12.7 Additional information

N/A

SECTION 13 — DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

13.2 Additional information

N/A

SECTION 14 — TRANSPORT INFORMATION

14.1 UN Number

ADR-UN number: 2735
DOT-UN Number: UN2735
IATA-Un number: 2735
IMDG-Un number: 2735

14.2 UN proper shipping name

ADR-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Amides, from methyl epoxyhydroxyoctadecanoate, tetraethylenepentamine and vegetable-oil fatty acids - 2,4,6-Tri(dimethylaminomethyl)phenol)
DOT-Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Amides, from methyl epoxyhydroxyoctadecanoate, tetraethylenepentamine and vegetable-oil fatty acids - 2,4,6-Tri(dimethylaminomethyl)phenol)
IATA-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Amides, from methyl epoxyhydroxyoctadecanoate, tetraethylenepentamine and vegetable-oil fatty acids - 2,4,6-Tri(dimethylaminomethyl)phenol)
IMDG-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Amides, from methyl epoxyhydroxyoctadecanoate, tetraethylenepentamine and vegetable-oil fatty acids - 2,4,6-Tri(dimethylaminomethyl)phenol)

14.3 Transport hazard class(es)

ADR - Class: 8
DOT - Hazard Class: 8
IATA - Class: 8
IMDG - Class: 8

14.4 Packing group

ADR - Packing group: II
DOT - Packing group: II
IATA - Packing group: II
IMDG - Packing group: II

14.5 Environmental hazards

Marine pollutant: No
Environmental Pollutant: N/A

14.6 Special precautions for user

• Department of Transportation (DOT)

Special Provision(s): B2, IB2, T11, TP1, TP27
Label(s): 8
Symbol: N/A
Cargo Aircraft: N/A
Passenger Aircraft: N/A
Bulk: N/A
Non-Bulk: N/A

- **Road and Rail (ADR-RID)**

Exempt: N/A
 Label: 8
 Hazard identification number: 80
 Transport category
 (Tunnel restriction code): 3 (E)

- **Air (IATA)**

Passenger Aircraft: 851
 Cargo Aircraft: 855
 Label: 8
 Subrisk: -
 Erg: 8L
 Special Provisions: A3 A803

- **Sea (IMDG)**

Stowage Code: Category A
 Stowage Note: SG35
 Subrisk: -
 Special Provision: 274
 Page: N/A
 Label: N/A
 EMS: F-A, S-B
 MFAG: N/A

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

N/A

SECTION 15 — REGULATORY INFORMATION

USA - FEDERAL REGULATIONS

TSCA - Toxic Substances Control Act		
TSCA Inventory:	All the components are listed on the TSCA inventory	
Amides, from methyl epoxyhydroxyoctadecanoate, tetraethylenepentamine and vegetable-oil fatty acids	is listed in TSCA	Section 8b
2,4,6-Tri(dimethylaminomethyl)phenol	is listed in TSCA	Section 8b
SARA - Superfund Amendments and Reauthorization Act		
Section 302 - Extremely Hazardous Substances:	no substances listed	
Section 304 - Hazardous substances:	no substances listed	
Section 313 - Toxic chemical list:	no substances listed	
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act		
Substance(s) listed under CERCLA:	no substances listed	
CAA - Clean Air Act		
CAA listed substances:	no substances listed	
CWA - Clean Water Act		
CWA listed substances:	no substances listed	

USA - STATE SPECIFIC REGULATIONS

California Proposition 65	no substances listed
Massachusetts Right to know	no substances listed
Pennsylvania Right to know	no substances listed
New Jersey Right to know	no substances listed

CANADA - FEDERAL REGULATIONS

DSL - Domestic Substances List	All the substances are listed in the DSL.
NDSL - Non Domestic Substances List	No substance listed
NPRI - National Pollutant Release Inventory	No substance listed

SECTION 16 — OTHER INFORMATION

HMIS RATING: Health 3, Flammability 1, Physical Hazard 0, Personal Protection B

NFPA RATING: Special Hazard: N/A, Health: 3, Flammability: 1, Instability: 0

SDS Updated: 2018-06-20

Disclaimer

OTHER INFORMATION: This 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 other process. Such information is to the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.