

## Safety Data Sheet



## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

### 1.1 Product identifier

**Product Name** • **BC-600 Optical Cement Part A**

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

**Relevant identified use(s)** • Optical Cement

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

**Manufacturer** • Saint-Gobain Crystals and Detectors

17900 Great Lakes Parkway  
Hiram, OH 44234-9681  
United States  
www.crystals.saint-gobain.com

**Telephone (General)** • 440-834-5600

### 1.4 Emergency telephone number

**Manufacturer** • 1-800-424-9300 - ChemTrec

**Manufacturer** • 703-525-3887 - ChemTrec Outside U.S.

## Section 2: Hazards Identification

### EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

### 2.1 Classification of the substance or mixture

**CLP**

- Skin Irritation 2 - H315
- Skin Sensitization 1 - H317
- Eye Irritation 2 - H319
- Hazardous to the aquatic environment Chronic 2 - H411

### 2.2 Label Elements

**CLP**

#### WARNING



**Hazard statements** • H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

## Precautionary statements

- Prevention** • P261 - Avoid breathing mist, vapours and/or spray.  
 P264 - Wash 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.
- Response** • P302+P352 - IF ON SKIN: Wash with plenty of water.  
 P362+P364 - Take off contaminated clothing and wash it before reuse.  
 P321 - Specific treatment, see supplemental first aid information.  
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 - If eye irritation persists: Get medical advice/attention.  
 P391 - Collect spillage.

- Storage/Disposal** • P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## 2.3 Other Hazards

- CLP** • According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

## United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

### 2.1 Classification of the substance or mixture

- OSHA HCS 2012** • Skin Irritation 2  
 Skin Sensitization 1  
 Eye Irritation 2

### 2.2 Label elements

**OSHA HCS 2012**

#### WARNING



- Hazard statements** • Causes skin irritation  
 May cause an allergic skin reaction  
 Causes serious eye irritation

## Precautionary statements

- Prevention** • Avoid breathing mist, vapours and/or spray.  
 Wash thoroughly after handling.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • If on skin: Wash with plenty of water.  
 Take off contaminated clothing and wash before reuse.  
 Specific treatment, see supplemental first aid information.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If eye irritation persists: Get medical advice/attention.

- Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## 2.3 Other hazards

- OSHA HCS 2012** • Under United States Regulations (29 CFR 1910.1200 - Hazard Communication)

Standard), this product is considered hazardous.

## Canada

According to: WHMIS 2015

### 2.1 Classification of the substance or mixture

- WHMIS 2015
- Skin Irritation 2
  - Skin Sensitization 1
  - Eye Irritation 2

### 2.2 Label elements

WHMIS 2015

#### WARNING



- Hazard statements**
- Causes skin irritation
  - May cause an allergic skin reaction
  - Causes serious eye irritation

#### Precautionary statements

- Prevention**
- Avoid breathing mist, vapours and/or spray.
  - Wash thoroughly after handling.
  - Contaminated work clothing should not be allowed out of the workplace.
  - Wear protective gloves/protective clothing/eye protection/face protection.

- Response**
- IF ON SKIN: Wash with plenty of water.
  - Take off contaminated clothing and wash it before reuse.
  - Specific treatment, see supplemental first aid information.
  - If skin irritation or rash occurs: Get medical advice/attention.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - If eye irritation persists: Get medical advice/attention.

- Storage/Disposal**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### 2.3 Other hazards

WHMIS 2015

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

- Material does not meet the criteria of a substance.

### 3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments

Bisphenol A diglycidyl ether polymer	CAS:25068-38-6 EC Number:500-033-5 EU Index:603-074-00-8	> 99%	Ingestion/Oral-Rat LD50 • >5000 mg/kg Skin-Rabbit LD50 • >20 mL/kg	EU CLP: Annex VI, Table 3.1: Eye Irrit. 2, H319; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411 OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1 WHMIS 2015: Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1	NDA
Modifiers	NDA	< 1%	NDA	EU CLP: Not Classified OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified	NDA

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

#### Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

#### Skin

- Wash skin with soap and water. If irritation develops and persists, get medical attention.

#### Eye

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Ingestion

- Give plenty of water to drink. Never give anything by mouth to an unconscious person. Obtain medical attention immediately if ingested.

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

- Refer to Section 11 - Toxicological Information.

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

#### Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

**Suitable Extinguishing Media** • Water fog, carbon dioxide, foam, dry chemical.

**Unsuitable Extinguishing Media** • No data available

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

**Unusual Fire and Explosion Hazards** • Containers may explode when heated.

**Hazardous Combustion Products** • Decomposition and combustion products may be toxic.

### 5.3 Advice for firefighters

- Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6 - Accidental Release Measures

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

**Personal Precautions** • Ventilate the area. Wear appropriate personal protective equipment, avoid direct

contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

#### Emergency Procedures

- Stop leak if you can do it without risk. Keep unauthorized personnel away.

### 6.2 Environmental precautions

- Prevent spill from entering sewers, soil or waterways.

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

#### Containment/Clean-up Measures

- Stop leak if you can do it without risk.  
Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.  
Dike to collect large liquid spills.  
Wash spill area with soap and water.

### 6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

#### Handling

- Use only in well ventilated areas. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing mist, vapors, and/or spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

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

#### Storage

- Keep container tightly closed. Store in a cool, dry, well ventilated area.

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

#### Exposure Limits/Guidelines

- No applicable exposure limits available for product or components.

### 8.2 Exposure controls

#### Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Personal Protective Equipment

##### Respiratory

- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

##### Eye/Face

- Wear safety glasses.

##### Skin/Body

- Wear appropriate gloves.

#### Environmental Exposure Controls

- Follow best practice for site management and disposal of waste. Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

## Section 9 - Physical and Chemical Properties

## 9.1 Information on Basic Physical and Chemical Properties

<b>Material Description</b>			
Physical Form	Liquid	Appearance/Description	Colorless liquid with mild epoxy odor.
Color	Colorless	Odor	Mild epoxy odor.
Odor Threshold	Data lacking		
<b>General Properties</b>			
Boiling Point	> 260 °C(> 500 °F)	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	Data lacking	Density	9.68 lbs/gal
Water Solubility	Data lacking	Viscosity	16000 Centipoise (cPs, cP) or mPas
Explosive Properties	Data lacking	Oxidizing Properties:	Data lacking
<b>Volatility</b>			
Vapor Pressure	< 0.01 hPa	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
<b>Flammability</b>			
Flash Point	252 °C(485.6 °F)	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
<b>Environmental</b>			
Octanol/Water Partition coefficient	Data lacking		

## 9.2 Other Information

- No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

- Avoid storage in open containers, exposure to open flame or uncontrolled exposure to heat, uncontrolled mixing with curing agents or exposure to incompatible substances.

### 10.5 Incompatible materials

- Incompatible with strong oxidizers, acids, bases; uncontrolled mixing with amines, anhydrides, mercaptans, imidazoles may cause hazardous polymerization.

### 10.6 Hazardous decomposition products

- Carbon monoxide, carbon dioxide, aldehydes, acids and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on the conditions of combustion.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

Components		
Bisphenol A diglycidyl ether polymer (> 99%)	25068-38-6	<p><b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 13.6 g/kg; Skin-Rabbit LD50 • &gt;20 mL/kg;</p> <p><b>Irritation:</b> Eye-Rabbit • 100 mg • Mild irritation; Skin-Rabbit • 2 mg 24 Hour(s) • Severe irritation;</p> <p><b>Multi-dose Toxicity:</b> Ingestion/Oral-Rat TDLo • 273 g/kg 26 Week(s)-Continuous; <i>Kidney, Ureter, and Bladder:Changes in bladder weight; Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain;</i></p> <p><b>Reproductive:</b> Skin-Guinea Pig TDLo • 6111 mg/kg (10-66D preg); <i>Reproductive Effects:Effects on Fertility:Abortion; Reproductive Effects:Effects on Embryo or Fetus:Extra embryonic structures; Reproductive Effects:Effects on Embryo or Fetus:Fetal death;</i></p> <p><b>Tumorigen / Carcinogen:</b> Skin-Mouse TDLo • 16480 mg/kg 2 Year(s)-Intermittent; <i>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Lungs, Thorax, or Respiration:Tumors; Skin and Appendages:Other:Tumors</i></p>

GHS Properties	Classification
Acute toxicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Skin corrosion/Irritation	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2 WHMIS 2015 • Skin Irritation 2
Serious eye damage/Irritation	EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2 WHMIS 2015 • Eye Irritation 2
Skin sensitization	EU/CLP • Skin Sensitizer 1 OSHA HCS 2012 • Skin Sensitizer 1 WHMIS 2015 • Skin Sensitizer 1
Respiratory sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Aspiration Hazard	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Carcinogenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Germ Cell Mutagenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Toxicity for Reproduction	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
STOT-SE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
STOT-RE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking

**Potential Health Effects**

**Inhalation****Acute (Immediate)**

- Inhalation hazard at room temperature is unlikely, due to the low volatility of this product. Heating can generate vapors that may cause respiratory irritation, nausea and headaches.

**Chronic (Delayed)**

- No data available

**Skin****Acute (Immediate)**

- Causes skin irritation. May cause skin sensitization. Symptoms include redness, and skin rash.

**Chronic (Delayed)**

- No data available

**Eye****Acute (Immediate)**

- Causes serious eye irritation.

**Chronic (Delayed)**

- No data available

**Ingestion****Acute (Immediate)**

- May cause gastrointestinal irritation, diarrhea, and nausea.

**Chronic (Delayed)**

- No data available

**Key to abbreviations**

LD = Lethal Dose

TD = Toxic Dose

**Section 12 - Ecological Information****12.1 Toxicity**

- Toxic to aquatic life with long lasting effects.

**12.2 Persistence and degradability**

- Material data lacking.

**12.3 Bioaccumulative potential**

- Material data lacking.

**12.4 Mobility in Soil**

- Material data lacking.

**12.5 Results of PBT and vPvB assessment**

- No PBT and vPvB assessment has been conducted.

**12.6 Other adverse effects**

- Material data lacking.

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

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Section 14 - Transport Information**



	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A-(epichlorohydrin) epoxy resin)	9	III	NDA
TDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-(epichlorohydrin) epoxy resin)	9	III	NDA
IMO/IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-(epichlorohydrin) epoxy resin)	9	III	NDA
IATA/ICAO	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A-(epichlorohydrin) epoxy resin)	9	III	NDA

**14.6 Special precautions for user** • None specified.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** • Data lacking.

## Section 15 - Regulatory Information

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

**SARA Hazard Classifications** • Acute

State Right To Know		
Component	CAS	PA
Bisphenol A diglycidyl ether polymer	25068-38-6	No

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Bisphenol A diglycidyl ether polymer	25068-38-6	Yes	No	Yes	No	No

Inventory (Con't.)			
Component	CAS	Korea KECL	TSCA
Bisphenol A diglycidyl ether polymer	25068-38-6	Yes	Yes

## Canada

### Labor

#### Canada - WHMIS 1988 - Classifications of Substances

• Bisphenol A diglycidyl ether polymer 25068-38-6 D2B

#### Canada - WHMIS 1988 - Ingredient Disclosure List

• Bisphenol A diglycidyl ether polymer 25068-38-6 Not Listed

### Environment

#### Canada - CEPA - Priority Substances List

• Bisphenol A diglycidyl ether polymer 25068-38-6 Not Listed

## China

### Environment

#### China - Ozone Depleting Substances - First Schedule

• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
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#### China - Ozone Depleting Substances - Second Schedule

• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
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#### China - Ozone Depleting Substances - Third Schedule

• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
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### Other

#### China - Annex I & II - Controlled Chemicals Lists

• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
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#### China - Dangerous Goods List

• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
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## Germany

### Labor

#### Germany - Immission Control - Qualifying Quantities for Major Accident Prevention

• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
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#### Germany - Immission Control - Qualifying Quantities for Safety Reporting

• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
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#### Germany - TRGS 505 - Specific Lead Regulations

• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
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#### Germany - TRGS 511 - Specific Ammonium Nitrate Regulations

• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
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### Environment

#### Germany - TA Luft - Types and Classes

• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
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#### Germany - TA Luft - Emission Limits for Carcinogenic Substances

• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
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#### Germany - TA Luft - Emission Limits for Fibers

• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
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#### Germany - TA Luft - Emission Limits for Inorganic Dusts

• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
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#### Germany - TA Luft - Emission Limits for Inorganic Gases

• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
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#### Germany - TA Luft - Emission Limits for Organic Substances

• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
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#### Germany - Water Classification (VwVwS) - Annex 1

• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
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#### Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• Bisphenol A diglycidyl ether polymer	25068-38-6	ID Number 2007, hazard class 2 - hazard to waters (molecular weight <700, content of free epichlorohydrin <20 ppm, not classified as R40 or R45)
<b>Germany - Water Classification (VwVwS) - Annex 3</b>		
• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed

## United States

<b>Labor</b>		
<b>U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals</b>		
• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
<b>U.S. - OSHA - Specifically Regulated Chemicals</b>		
• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed

<b>Environment</b>		
<b>U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants</b>		
• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
<b>U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities</b>		
• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
<b>U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities</b>		
• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
<b>U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs</b>		
• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
<b>U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs</b>		
• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
<b>U.S. - CERCLA/SARA - Section 313 - Emission Reporting</b>		
• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
<b>U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing</b>		
• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed

## United States - California

<b>Environment</b>		
<b>U.S. - California - Proposition 65 - Carcinogens List</b>		
• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
<b>U.S. - California - Proposition 65 - Developmental Toxicity</b>		
• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
<b>U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)</b>		
• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
<b>U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)</b>		
• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
<b>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</b>		
• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
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**United States - Pennsylvania****Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
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**U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances**

• Bisphenol A diglycidyl ether polymer	25068-38-6	Not Listed
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**15.2 Chemical Safety Assessment**

- No Chemical Safety Assessment has been carried out.

**Section 16 - Other Information****Revision Date**

- 25/May/2017

**Preparation Date**

- 05/February/2009

**Disclaimer/Statement of Liability**

- The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws. Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgement.

**Key to abbreviations**

NDA = No Data Available

## Safety Data Sheet



## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

### 1.1 Product identifier

**Product Name** • **BC-600 Optical Cement Part B**

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

**Relevant identified use(s)** • Optical Cement

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

**Manufacturer** • Saint-Gobain Crystals and Detectors

17900 Great Lakes Parkway  
Hiram, OH 44234-9681  
United States  
www.crystals.saint-gobain.com

**Telephone (General)** • 440-834-5600

### 1.4 Emergency telephone number

**Manufacturer** • 1-800-424-9300 - ChemTrec

**Manufacturer** • 703-525-3887 - ChemTrec Outside U.S.

## Section 2: Hazards Identification

### EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

### 2.1 Classification of the substance or mixture

**CLP**

- Skin Corrosion 1B - H314
- Skin Sensitization 1 - H317
- Serious Eye Damage 1 - H318

### 2.2 Label Elements

**CLP**

### DANGER



**Hazard statements** • H317 - May cause an allergic skin reaction  
H314 - Causes severe skin burns and eye damage.  
H318 - Causes serious eye damage

## Precautionary statements

- Prevention** • P260 - Do not breathe mist, vapours and/or spray.  
P264 - Wash thoroughly after handling.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P310 - Immediately call a POISON CENTER/doctor.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P321 - Specific treatment, see supplemental first aid information.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- Storage/Disposal** • P405 - Store locked up.  
P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## 2.3 Other Hazards

- CLP • According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

## United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

### 2.1 Classification of the substance or mixture

- OSHA HCS 2012 • Skin Corrosion 1B  
Skin Sensitization 1  
Serious Eye Damage 1

### 2.2 Label elements

OSHA HCS 2012

#### DANGER



- Hazard statements** • Causes severe skin burns and eye damage.  
May cause an allergic skin reaction  
Causes serious eye damage

## Precautionary statements

- Prevention** • Do not breathe mist, vapours and/or spray.  
Wash thoroughly after handling.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Immediately call a POISON CENTER/doctor.  
If on skin: Wash with plenty of water.  
Wash contaminated clothing before reuse.  
Specific treatment, see supplemental first aid information.  
If skin irritation or rash occurs: Get medical advice/attention.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- Storage/Disposal** • Store locked up.  
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## 2.3 Other hazards

### OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## Canada

According to: WHMIS 2015

## 2.1 Classification of the substance or mixture

### WHMIS 2015

- Skin Corrosion 1B
- Skin Sensitization 1
- Serious Eye Damage 1

## 2.2 Label elements

### WHMIS 2015

### DANGER



- Hazard statements**
- Causes severe skin burns and eye damage.
  - May cause an allergic skin reaction
  - Causes serious eye damage

### Precautionary statements

- Prevention**
- Do not breathe mist, vapours and/or spray.
  - Wash thoroughly after handling.
  - Contaminated work clothing should not be allowed out of the workplace.
  - Wear protective gloves/protective clothing/eye protection/face protection.

- Response**
- IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
  - IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Specific treatment, see supplemental first aid information.
  - If skin irritation or rash occurs: Get medical advice/attention.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

- Storage/Disposal**
- Store locked up.
  - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## 2.3 Other hazards

### WHMIS 2015

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

- Material does not meet the criteria of a substance.

### 3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Diethylene glycol, di(3-aminopropyl) ether	CAS:4246-51-9 EINECS:224-207-2	60% TO 100%	NDA	<b>EU CLP:</b> Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1, H317 <b>OSHA HCS 2012:</b> Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1 <b>WHMIS 2015:</b> Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1	NDA

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

#### Inhalation

- Move victim to fresh air. Administer oxygen if breathing is difficult. Do not use mouth-to-mouth method if victim 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. Give artificial respiration if victim is not breathing. Get medical attention.

#### Skin

- For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. If irritation develops and persists, get medical attention.

#### Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. Get medical attention.

#### Ingestion

- Do NOT induce vomiting. If swallowed, rinse mouth with water (only if the person is conscious) Do not use mouth-to-mouth method if victim ingested the substance. Obtain medical attention immediately if ingested.

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

- Refer to Section 11 - Toxicological Information.

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

#### Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

**Suitable Extinguishing Media** • LARGE FIRES: Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray.  
SMALL FIRES: Dry chemical, CO<sub>2</sub> or water spray.

**Unsuitable Extinguishing Media** • No data available

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

**Unusual Fire and Explosion Hazards** • Containers may explode when heated.

**Hazardous Combustion Products** • Oxides of carbon. Amines. Toxic and irritating vapors.

### 5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.



Wear positive pressure self-contained breathing apparatus (SCBA).  
 SMALL FIRES: Move containers from fire area if you can do it without risk.  
 Use water spray to cool fire-exposed containers.

## Section 6 - Accidental Release Measures

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

- |                             |  |
|-----------------------------|--|
| <b>Personal Precautions</b> | <ul style="list-style-type: none"> <li>Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.</li> </ul>  |
| <b>Emergency Procedures</b> | <ul style="list-style-type: none"> <li>ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container.</li> </ul> |

### 6.2 Environmental precautions

- Avoid run off to waterways and sewers.

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

- |                                      |   |
|--------------------------------------|---|
| <b>Containment/Clean-up Measures</b> | <ul style="list-style-type: none"> <li>Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.<br/>Dike to collect large liquid spills.</li> </ul> |
|--------------------------------------|---|

### 6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

- |                 |  |
|-----------------|--|
| <b>Handling</b> | <ul style="list-style-type: none"> <li>Handle and open container with care. Use only with adequate ventilation. Use caution when combining with water; DO NOT add water to corrosive liquid, ALWAYS add corrosive liquid to water while stirring to prevent release of heat, steam and fumes. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapors, or spray. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.</li> </ul> |
|-----------------|--|

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

- |                |  |
|----------------|--|
| <b>Storage</b> | <ul style="list-style-type: none"> <li>Keep container tightly closed. Store in a cool, dry, well ventilated area.</li> </ul> |
|----------------|--|

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

- |                                   |  |
|-----------------------------------|--|
| <b>Exposure Limits/Guidelines</b> | <ul style="list-style-type: none"> <li>No applicable exposure limits available for product or components.</li> </ul> |
|-----------------------------------|--|

### 8.2 Exposure controls

- |                                      |   |
|--------------------------------------|---|
| <b>Engineering Measures/Controls</b> | <ul style="list-style-type: none"> <li>Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.</li> </ul> |
|--------------------------------------|---|

### Personal Protective Equipment

#### Respiratory

- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved

<b>Eye/Face</b>	respirator if exposure limits are exceeded or symptoms are experienced.
<b>Skin/Body</b>	<ul style="list-style-type: none"> <li>Wear protective eyewear (goggles, face shield, or safety glasses).</li> <li>Wear appropriate gloves. Wear long sleeves and/or protective coveralls.</li> </ul>
<b>Environmental Exposure Controls</b>	<ul style="list-style-type: none"> <li>Follow best practice for site management and disposal of waste.</li> </ul>

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	A colorless liquid with a ammoniacal odor.
Color	Colorless	Odor	Ammoniacal
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	= 1.01 Water=1	Water Solubility	Data lacking
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking	VOC (Wt.)	0 %
VOC (Vol.)	0 %		
Flammability			
Flash Point	121 °C(249.8 °F)	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

### 9.2 Other Information

- No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

- Keep away from heat, sparks, and flame.

### 10.5 Incompatible materials

- Acids

## 10.6 Hazardous decomposition products

- Oxides of carbon. Irritating organic vapours.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

Components		
Diethylene glycol, di(3-aminopropyl) ether (60% TO 100%)	4246-51-9	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 4290 µL/kg; Skin-Rabbit LD50 • 2500 µL/kg

GHS Properties	Classification
<b>Acute toxicity</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
<b>Skin corrosion/Irritation</b>	EU/CLP • Skin Corrosion 1B OSHA HCS 2012 • Skin Corrosion 1B WHMIS 2015 • Skin Corrosion 1B
<b>Serious eye damage/Irritation</b>	EU/CLP • Serious Eye Damage 1 OSHA HCS 2012 • Serious Eye Damage 1 WHMIS 2015 • Serious Eye Damage 1
<b>Skin sensitization</b>	EU/CLP • Skin Sensitizer 1 OSHA HCS 2012 • Skin Sensitizer 1 WHMIS 2015 • Skin Sensitizer 1
<b>Respiratory sensitization</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
<b>Aspiration Hazard</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
<b>Carcinogenicity</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
<b>Germ Cell Mutagenicity</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
<b>Toxicity for Reproduction</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
<b>STOT-SE</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
<b>STOT-RE</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking

## Potential Health Effects

### Inhalation

**Acute (Immediate)**

- May cause corrosive burns - irreversible damage.

**Chronic (Delayed)**

- Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

**Skin**

**Acute (Immediate)**

- Causes severe skin burns and eye damage. May cause skin sensitization. Symptoms include redness, and skin rash.

**Chronic (Delayed)**

- Repeated or prolonged exposure to corrosive materials will cause dermatitis.

**Eye**

**Acute (Immediate)**

- Causes serious eye damage.

**Chronic (Delayed)**

- Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.

**Ingestion**

**Acute (Immediate)**

- May cause irreversible damage to mucous membranes.

**Chronic (Delayed)**

- Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.

**Key to abbreviations**

LD = Lethal Dose

**Section 12 - Ecological Information**

**12.1 Toxicity**

- Material data lacking.

**12.2 Persistence and degradability**

- Material data lacking.

**12.3 Bioaccumulative potential**

- Material data lacking.

**12.4 Mobility in Soil**

- Material data lacking.

**12.5 Results of PBT and vPvB assessment**

- No PBT and vPvB assessment has been conducted.

**12.6 Other adverse effects**

- No studies have been found.

**Section 13 - Disposal Considerations**

**13.1 Waste treatment methods**

**Product waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Section 14 - Transport Information**

	<b>14.1 UN</b>	<b>14.2 UN proper shipping name</b>	<b>14.3 Transport</b>	<b>14.4 Packing</b>	<b>14.5 Environmental</b>
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	number		hazard class(es)	group	hazards
DOT	UN2735	Amines, liquid, corrosive, n.o.s. (3,3'-oxybis(ethyleneoxy)bis(propylamine))	8	II	NDA
TDG	UN2735	AMINES, LIQUID, CORROSIVE, N.O.S. (3,3'-oxybis(ethyleneoxy)bis(propylamine))	8	II	NDA
IMO/IMDG	UN2735	AMINES, LIQUID, CORROSIVE, N.O.S. (3,3'-oxybis(ethyleneoxy)bis(propylamine))	8	II	NDA
IATA/ICAO	UN2735	Amines, liquid, corrosive, n.o.s. (3,3'-oxybis(ethyleneoxy)bis(propylamine))	8	II	NDA

**14.6 Special precautions for user** • None specified.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** • Data lacking.

## Section 15 - Regulatory Information

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

**SARA Hazard Classifications** • Acute

State Right To Know		
Component	CAS	PA
Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	No

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Yes	No	Yes	No	Yes

### Canada

#### Labor

**Canada - WHMIS 1988 - Classifications of Substances**

• Diethylene glycol, di(3-aminopropyl) ether 4246-51-9 Not Listed

**Canada - WHMIS 1988 - Ingredient Disclosure List**

• Diethylene glycol, di(3-aminopropyl) ether 4246-51-9 Not Listed

#### Environment

**Canada - CEPA - Priority Substances List**

• Diethylene glycol, di(3-aminopropyl) ether 4246-51-9 Not Listed

### Germany

#### Labor

**Germany - Immission Control - Qualifying Quantities for Major Accident Prevention**

• Diethylene glycol, di(3-aminopropyl) ether 4246-51-9 Not Listed

**Germany - Immission Control - Qualifying Quantities for Safety Reporting**

• Diethylene glycol, di(3-aminopropyl) ether 4246-51-9 Not Listed

**Germany - TRGS 505 - Specific Lead Regulations**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**Environment****Germany - TA Luft - Types and Classes**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**Germany - TA Luft - Emission Limits for Carcinogenic Substances**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**Germany - TA Luft - Emission Limits for Fibers**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**Germany - TA Luft - Emission Limits for Inorganic Dusts**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**Germany - TA Luft - Emission Limits for Inorganic Gases**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**Germany - TA Luft - Emission Limits for Organic Substances**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**Germany - Water Classification (VwVwS) - Annex 1**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**Germany - Water Classification (VwVwS) - Annex 3**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	ID Number 8608, hazard class 1 - low hazard to waters
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**United States****Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**U.S. - OSHA - Specifically Regulated Chemicals**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**Environment****U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**United States - California****Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**U.S. - California - Proposition 65 - Developmental Toxicity**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**U.S. - California - Proposition 65 - Reproductive Toxicity - Female**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**United States - Pennsylvania****Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances**

• Diethylene glycol, di(3-aminopropyl) ether	4246-51-9	Not Listed
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**15.2 Chemical Safety Assessment**

- No Chemical Safety Assessment has been carried out.

**Section 16 - Other Information****Revision Date**

- 25/May/2017

**Preparation Date**

- 06/March/2017

**Disclaimer/Statement of Liability**

- The information herein is given in good faith but no warranty, expressed or implied, is made.

**Key to abbreviations**

NDA = No Data Available