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SDS Number: 120A  
Revision Date: 12/10/2020  
Supersedes Date: 09/25/2015

## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

### Product Name: GC POTTING EPOXY, PART A (RESIN)

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Type:	Adhesive	Emergency Contact:	Chemtrec
Product Name:	<b>GC POTTING EPOXY, PART A (RESIN)</b>	Phone:	<b>(800) 424-9300</b>
Part Number(s):	19-823 Part A	Product for industrial use only	

#### SECTION 2. HAZARDS IDENTIFICATION

##### 2.1. Classification of the substance or mixture

###### GHS US classification

Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2	H319	Causes serious eye irritation
Skin sensitization, Category 1	H317	May cause an allergic skin reaction

Full text of H statements : see section 16

##### 2.2. GHS Label elements, including precautionary statements

###### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning

Hazard statements (GHS US) :  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation

Precautionary statements (GHS US) :  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
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.  
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 to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.



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**Product Name: GC POTTING EPOXY, PART A (RESIN)**

### SECTION 2. HAZARDS IDENTIFICATION (CONTINUED)

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Epoxy Resin	(CAS-No.) 25068-38-6	≥ 90	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
carbon black	(CAS-No.) 1333-86-4	0.5 – 1	Not classified

Full text of hazard classes and H-statements : see section 16

### SECTION 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

- |                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : IF exposed or concerned: Get medical advice/attention.   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.   |
| First-aid measures after eye contact  | : 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. |
| First-aid measures after ingestion    | : Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention if you feel unwell.  |



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#### SECTION 4. FIRST AID MEASURES (CONTINUED)

##### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.  
Symptoms/effects after eye contact : Eye irritation.

##### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

#### SECTION 5. FIRE-FIGHTING MEASURES

##### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use water jet to extinguish.

##### 5.2. Specific hazards arising from the chemical

##### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

###### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

###### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

##### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

##### 6.4. Reference to other sections

For further information refer to section 13.



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### Product Name: GC POTTING EPOXY, PART A (RESIN)

#### SECTION 7. HANDLING AND STORAGE

##### 7.1. Precautions for safe handling

- Additional hazards when processed : Contains a component that is encapsulated within the product and not expected to be released during normal processing conditions or a foreseeable emergency. Do not breathe dust created by sanding, grinding or machining.
- Precautions for safe handling : Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the workplace. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.
- Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

- Storage conditions : Store in a well-ventilated place. Keep cool.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### 8.1. Control parameters

Epoxy Resin (25068-38-6)		
Not applicable		
carbon black (1333-86-4)		
ACGIH	Local name	Carbon black
ACGIH	ACGIH OEL TWA	3 mg/m <sup>3</sup> (Inhalable fraction)
ACGIH	Remark (ACGIH)	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH	Regulatory reference	ACGIH 2020
OSHA	OSHA PEL (TWA) [1]	3.5 mg/m <sup>3</sup>
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

##### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the workplace.
- Environmental exposure controls : Avoid release to the environment.



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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

##### 8.3. Individual protection measures/Personal protective equipment

**Hand protection:**

Protective gloves

**Eye protection:**

Safety glasses with side shields

**Skin and body protection:**

Wear suitable protective clothing

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state	: Liquid
Color	: Black
Odor	: Mild epoxy odor
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: > 200 °C
Flash point	: 252 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.16 g/cm <sup>3</sup>



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**Product Name: GC POTTING EPOXY, PART A (RESIN)**

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)

Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
VOC content	No data available

### SECTION 10. STABILITY AND REACTIVITY

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

Acids. Bases (Alkalis). Oxidizing agent.

#### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Phenolic compounds.



## SAFETY DATA SHEET

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### Product Name: GC POTTING EPOXY, PART A (RESIN)

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Epoxy Resin (25068-38-6)	
LD50 oral rat	> 2000 mg/kg (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))

carbon black (1333-86-4)	
LD50 oral rat	> 10000 mg/kg (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 28 day(s))
LD50 dermal rabbit	> 8000 mg/kg Source: ECHA

carbon black (1333-86-4)	
LC50 Inhalation - Rat	> 4.6 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Experimental value, Inhalation (dust))

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Epoxy Resin (25068-38-6)	
NOAEL (chronic,oral,animal/male,2 years)	15 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Guideline: EPA OPPTS 870.4300 (Combined Chronic Toxicity / Carcinogenicity), Guideline: other:MITI, Japanese ministry of international trade and industry, February 1998, Remarks on results: other:Effect type: toxicity (migrated information)
NOAEL (chronic,oral,animal/female,2 years)	100 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Guideline: EPA OPPTS 870.4300 (Combined Chronic Toxicity / Carcinogenicity), Guideline: other:MITI, Japanese ministry of international trade and industry, February 1998, Remarks on results: other:Effect type: toxicity (migrated information)

carbon black (1333-86-4)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

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### Product Name: GC POTTING EPOXY, PART A (RESIN)

#### SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

Epoxy Resin (25068-38-6)	
NOAEL (oral, rat, 90 days)	50 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: other: Japanese MITI guidelines for toxicity testing of chemicals
carbon black (1333-86-4)	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0071 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0011 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)

Aspiration hazard : Not classified

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

#### SECTION 12. ECOLOGICAL INFORMATION

##### 12.1. Toxicity

Ecology - general : Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Epoxy Resin (25068-38-6)	
LC50 - Fish [1]	2.3 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	2 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
LOEC (chronic)	1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
carbon black (1333-86-4)	
LC50 - Fish [1]	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	> 5600 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	> 10000 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)



## SAFETY DATA SHEET

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### Product Name: GC POTTING EPOXY, PART A (RESIN)

#### SECTION 12. ECOLOGICAL INFORMATION (CONTINUED)

##### 12.2. Persistence and degradability

###### Epoxy Resin (25068-38-6)

Persistence and degradability	Not readily biodegradable in water.
-------------------------------	-------------------------------------

###### carbon black (1333-86-4)

Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

##### 12.3. Bioaccumulative potential

###### Epoxy Resin (25068-38-6)

BCF - Other aquatic organisms [1]	31 (Estimated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	3 (Estimated value, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

###### carbon black (1333-86-4)

Bioaccumulative potential	Not bioaccumulative.
---------------------------	----------------------

##### 12.4. Mobility in soil

###### Epoxy Resin (25068-38-6)

Surface tension	59 mN/m (20 °C, 0.09 g/l)
Partition coefficient n-octanol/water (Log Koc)	2.65 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Ecology - soil	Low potential for adsorption in soil.

###### carbon black (1333-86-4)

Surface tension	Not applicable (solid)
Ecology - soil	No (test) data on mobility of the substance available. Not toxic to plants. Not toxic to animals.

##### 12.5. Other adverse effects

No additional information available



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### Product Name: GC POTTING EPOXY, PART A (RESIN)

#### SECTION 13. DISPOSAL CONSIDERATIONS

##### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

#### SECTION 14. TRANSPORT INFORMATION

##### Department of Transportation (DOT)

In accordance with DOT

Not regulated

##### Transportation of Dangerous Goods

Not applicable

##### Transport by sea

Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin), 9, III, MARINE POLLUTANT

UN-No. (IMDG) : 3082  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Epoxy Resin

Class (IMDG) : 9 - Miscellaneous dangerous substances and articles

Packing group (IMDG) : III - substances presenting low danger

Limited quantities (IMDG) : 5 L

Marine pollutant : Yes





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### Product Name: GC POTTING EPOXY, PART A (RESIN)

#### SECTION 14. TRANSPORT INFORMATION (CONTINUED)

##### Air transport

Transport document description (IATA)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin), 9, III
UN-No. (IATA)	: 3082
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s. Epoxy Resin
Class (IATA)	: 9 - Miscellaneous Dangerous Goods
Packing group (IATA)	: III - Minor Danger

#### SECTION 15. REGULATORY INFORMATION

##### 15.1. US Federal regulations

###### Epoxy Resin (25068-38-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

###### carbon black (1333-86-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### 15.2. International regulations

###### CANADA

###### Epoxy Resin (25068-38-6)

Listed on the Canadian DSL (Domestic Substances List)

###### carbon black (1333-86-4)

Listed on the Canadian DSL (Domestic Substances List)

##### EU-Regulations

Contains no REACH candidate substance

##### National regulations

###### carbon black (1333-86-4)

Listed on IARC (International Agency for Research on Cancer)

## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

### Product Name: GC POTTING EPOXY, PART A (RESIN)

#### SECTION 15. REGULATORY INFORMATION (CONTINUED)

##### 15.3. US State regulations

**WARNING:** This product can expose you to 1-chloro-2,3-epoxypropane, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Component	State or local regulations
carbon black(1333-86-4)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

#### SECTION 16. OTHER INFORMATION

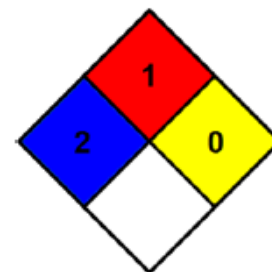
Full text of H-phrases:

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



##### Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.



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### Product Name: GC POTTING EPOXY, PART A (RESIN)

#### SECTION 16. OTHER INFORMATION

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

##### **Abbreviations and acronyms:**

ACGIH: American Conference of Governmental Industrial Hygienists  
ACToR: US EPA Aggregated Computational Toxicology Resource  
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road  
BCF: Bioconcentration Factor  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
CCRIS: US NLM TOXNET Chemical Carcinogenesis Research Information System  
CHRIP: Japan NITE Information on Biodegradation and Bioconcentration of the Existing Chemical Substances in the Chemical Risk Information Platform  
DOT: US Department of Transportation  
DSL: Canada Domestic Substance List  
ESIS: European Chemical Substances Information System  
HMIS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System  
HSDB: US NLM TOXNET Hazardous Substances Databank  
HSNO CCID: New Zealand Hazardous Substances and New Organisms Chemical Classification Information Database  
IARC: International Agency for Research on Cancer developed by United Nations World Health Organisation (WHO)  
IATA-DGR: Dangerous Goods Regulations (DGR) by the International Air Transport Association (IATA)  
ICAO-TI: Technical Instructions (TI) by the International Civil Aviation Organization (ICAO)  
ICSC: International Chemical Safety Cards  
IMDG: International Maritime Dangerous Goods; the principal international rules for International Carriage of Dangerous Goods by SEA under the Recommendations on the Transport of Dangerous Goods by United Nations (RTDG)  
IUCRID: EU REACH International Uniform Chemical Information Database  
Koc: Partition coefficient, soil Organic Carbon to water  
LC50/LD50: Lethal Concentration/Dose, 50 percent  
N/a: Not available or Not applicable  
NFPA: US National Fire Protection Association  
NIOSH: US National Institute of Occupational Safety and Health  
NLM TOXNET: US National Library of Medicine Toxicology Data Network  
NITE: National Institute of Technology and Evaluation, Japan  
OECD: Organisation for Economic Co-operation and Development  
OSHA: US Occupational Safety and Health Administration  
  
P: Marine Pollutant  
RCRA: Resource Conservation and Recovery Act (USA)  
REACH: EU Registry, Evaluation and Authorisation of Chemicals  
RID: the Regulations Concerning the International Carriage of Dangerous Goods by Rail; published by the Central Office for International Carriage by Rail (OTIF)  
RTDG: the Recommendations on the Transport of Dangerous Goods by United Nations (UN)  
RTECS: US Registry of Toxic Effects of Chemical Substances  
SARA: US Superfund Amendments and Reauthorization Act  
SIDS: OECD existing chemicals Screening Information Data Sets  
SVHC: EU ECHA Substance of Very High Concern  
TEEL: Temporary Emergency Exposure Limit developed by US Subcommittee on Consequence Assessment and Protective Actions (SCAPA) of US Department of Energy (DOE)  
TOXLINE: US NLM bibliographic database search system  
TSCA: US Toxic Substance Control Act  
ECHA: European Chemicals Agency's Dissemination portal with information on chemical substances registered under REACH



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## **SAFETY DATA SHEET**

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**Product Name: GC POTTING EPOXY, PART A (RESIN)**

### **SECTION 17. DISCLAIMER**

GC Electronics believes that the information contained herein is accurate and reliable as of the date of this material safety data sheet, but no representation guarantee or warranty, express or implied, is made as to the accuracy, reliability or completeness of the information. Persons receiving information are encouraged to make their own determination as to the information's suitability and completeness for their particular application. NO INFORMATION CONTAINED HEREIN CONSTITUTES A PRODUCT WARRANTY OF ANY KIND, WHETHER EXPRESS OR IMPLIED; AND ALL IMPLIED WARRANTIES OF MERCHANT ABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY GC ELECTRONICS.



## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

### Product Name: GC POTTING EPOXY, PART B (HARDENER)

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Type:	Adhesive	Emergency Contact:	Chemtrec
Product Name:	<b>GC POTTING EPOXY, PART B (HARDNER)</b>	Phone:	<b>(800) 424-9300</b>
Part Number(s):	<b>19-823 PART B</b>	Product for industrial use only	

#### SECTION 2. HAZARDS IDENTIFICATION

##### 2.1. Classification of the substance or mixture

###### GHS US classification

Skin corrosion/irritation Category 1B	H314	Causes severe skin burns and eye damage
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Reproductive toxicity Category 2	H361	Suspected of damaging fertility or the unborn child
Specific target organ toxicity (repeated exposure) Category 1	H372	Causes damage to organs through prolonged or repeated exposure

Full text of H statements : see section 16

##### 2.2. GHS Label elements, including precautionary statements

###### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US) :

- H314 - Causes severe skin burns and eye damage
- H317 - May cause an allergic skin reaction
- H361 - Suspected of damaging fertility or the unborn child
- H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) :

- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 - Wash hands, forearms and face thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P272 - Contaminated work clothing must not be allowed out of the workplace.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
- P302+P352 - If on skin: Wash with plenty of water.
- 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.
- P308+P313 - If exposed or concerned: Get medical advice/attention.
- P310 - Immediately call a poison center or doctor.
- P314 - Get medical advice/attention if you feel unwell.
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P363 - Wash contaminated clothing before reuse.

**SAFETY DATA SHEET**

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**Product Name: GC POTTING EPOXY, PART B (HARDENER)****SECTION 2. HAZARDS IDENTIFICATION (CONTINUED)**

P391 - Collect spillage.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**2.3. Other hazards which do not result in classification**

No additional information available

**2.4. Unknown acute toxicity (GHS US)**

Not applicable

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substances**

Not applicable

**3.2. Mixtures**

Name	Product identifier	%	GHS US classification
Polyamide resin	(CAS-No.) 68082-29-1	30 - 50	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Benzyl alcohol	(CAS-No.) 100-51-6	15 - 20	Acute Tox. 4 (Oral), H302
Isophorone diamine	(CAS-No.) 2855-13-2	10 - 20	Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314 Skin Sens. 1, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Amine Epoxy Resin Adduct Trade Secret CAS number		10 - 20	STOT SE 3, H335 STOT RE 1, H372
4-Nonylphenol, branched	(CAS-No.) 84852-15-3	10 - 30	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Triethylenetetramine	(CAS-No.) 112-24-3	1 - 5	Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412

Full text of hazard classes and H-statements : see section 16

## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

### Product Name: GC POTTING EPOXY, PART B (HARDENER)

#### SECTION 4. FIRST AID MEASURES

##### 4.1. Description of first aid measures

- |                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : IF exposed or concerned: Get medical advice/attention.   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact | : Rinse immediately with plenty of water for 15 minutes. Remove/Take off immediately all contaminated clothing. Get immediate medical advice/attention. Thoroughly clean shoes before reuse. Wash clothing before reuse. |
| First-aid measures after eye contact  | : Immediately rinse with plenty of water (for at least 15 minutes). Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.  |
| First-aid measures after ingestion    | : Rinse mouth out with water. Do not induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person.   |

##### 4.2. Most important symptoms and effects (acute and delayed)

- |                                     |   |
|-------------------------------------|---|
| Symptoms/effects after skin contact | : Burns. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact  | : Serious damage to eyes.                     |
| Symptoms/effects after ingestion    | : Burns.                                      |

##### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

#### SECTION 5. FIRE-FIGHTING MEASURES

##### 5.1. Suitable (and unsuitable) extinguishing media

- |                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use water jet to extinguish.            |

##### 5.2. Specific hazards arising from the chemical

##### 5.3. Special protective equipment and precautions for fire-fighters

- |                                |  |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|--|

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

###### 6.1.1. For non-emergency personnel

- |                      |  |
|----------------------|--|
| Emergency procedures | : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. |
|----------------------|--|

###### 6.1.2. For emergency responders

- |                      |   |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

##### 6.2. Environmental precautions

Avoid release to the environment.



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Supersedes Date: 09/30/2015

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### Product Name: GC POTTING EPOXY, PART B (HARDENER)

#### SECTION 6. ACCIDENTAL RELEASE MEASURES (CONTINUED)

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

- |                         |   |
|-------------------------|---|
| For containment         | : Collect spillage.   |
| Methods for cleaning up | : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. |
| Other information       | : Dispose of materials or solid residues at an authorized site.   |

##### 6.4. Reference to other sections

For further information refer to section 13.

#### SECTION 7. HANDLING AND STORAGE

##### 7.1. Precautions for safe handling

- |                               |  |
|-------------------------------|--|
| Precautions for safe handling | : Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. |
| Hygiene measures              | : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.  |

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

- |                    |   |
|--------------------|---|
| Storage conditions | : Store locked up. Store in a well-ventilated place. Keep cool. |
|--------------------|---|

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### 8.1. Control parameters

###### 4-Nonylphenol, branched (84852-15-3)

Not applicable

###### Polyamide resin (68082-29-1)

Not applicable

###### Triethylenetetramine (112-24-3)

Not applicable

###### Isophorone diamine (2855-13-2)

Not applicable

###### Benzyl alcohol (100-51-6)

Not applicable

###### Amine Epoxy Resin Adduct Trade Secret CAS number

Not applicable



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### Product Name: GC POTTING EPOXY, PART B (HARDENER)

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

##### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the workplace.
- Environmental exposure controls : Avoid release to the environment.

##### 8.3. Individual protection measures/Personal protective equipment

###### Hand protection:

Protective gloves

###### Eye protection:

Safety glasses with side shields

###### Skin and body protection:

Wear suitable protective clothing

###### Respiratory protection:

In case of inadequate ventilation, wear respiratory protection.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid
Color	: amber
Odor	: Amine-like
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: > 176 °C
Flash point	: > 93 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.02 g/cm <sup>3</sup>



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### Product Name: GC POTTING EPOXY, PART B (HARDENER)

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)

Solubility	: Not miscible.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
VOC content	20 %

#### SECTION 10. STABILITY AND REACTIVITY

##### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

##### 10.2. Chemical stability

Stable under normal conditions.

##### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

##### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

##### 10.5. Incompatible materials

Bases (Alkalis). Acids. Oxidizing agent. May slowly corrode copper, aluminum, zinc, and galvanized surfaces. Peroxides. N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations.

##### 10.6. Hazardous decomposition products

ammonia. Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides.



## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

### Product Name: GC POTTING EPOXY, PART B (HARDENER)

#### SECTION 11. TOXICOLOGICAL INFORMATION

##### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

4-Nonylphenol, branched (84852-15-3)	
LD50 oral rat	1412 mg/kg body weight (Other, Rat, Male / female, Experimental value, Oral)
ATE US (oral)	1412 mg/kg body weight
Polyamide resin (68082-29-1)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)
Triethylenetetramine (112-24-3)	
LD50 oral rat	2500 mg/kg (Rat, Literature, Oral)
LD50 dermal rabbit	805 mg/kg (Rabbit, Literature, Dermal)
ATE US (oral)	2500 mg/kg body weight
ATE US (dermal)	805 mg/kg body weight
Isophorone diamine (2855-13-2)	
LD50 oral rat	1030 mg/kg (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 5.01 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))
ATE US (oral)	1030 mg/kg body weight
Benzyl alcohol (100-51-6)	
LD50 oral rat	1620 mg/kg bw/day (Rat, Male, Experimental value, Oral)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)
LC50 Inhalation - Rat	> 8.8 mg/l
ATE US (oral)	1620 mg/kg body weight

Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	: Assumed to cause serious eye damage
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified

**SAFETY DATA SHEET**

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**Product Name: GC POTTING EPOXY, PART B (HARDENER)****SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)****Amine Epoxy Resin Adduct Trade Secret CAS number**

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

**4-Nonylphenol, branched (84852-15-3)**

LOAEL (oral,rat,90 days) : 400 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

NOAEL (oral,rat,90 days) : 100 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

**Polyamide resin (68082-29-1)**

NOAEL (oral,rat,90 days) : 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

**Isophorone diamine (2855-13-2)**

LOAEL (oral,rat,90 days) : 160 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

**Benzyl alcohol (100-51-6)**

NOAEL (oral,rat,90 days) : 400 mg/kg body weight Animal: rat, Guideline: other:OECD Guideline 451 (Carcinogenicity Studies)

**Amine Epoxy Resin Adduct Trade Secret CAS number**

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

**SECTION 12. ECOLOGICAL INFORMATION****12.1. Toxicity**

Ecology - general : Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Ecology - water : Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

### Product Name: GC POTTING EPOXY, PART B (HARDENER)

#### SECTION 12. ECOLOGICAL INFORMATION (CONTINUED)

<b>4-Nonylphenol, branched (84852-15-3)</b>	
LC50 - Fish [1]	0.08 mg/l (ASTM E729-96, 96 h, Hybopsis monacha, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	0.084 mg/l (ASTM E729-88, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value)
NOEC chronic fish	0.006 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '91 d'
<b>Polyamide resin (68082-29-1)</b>	
LC50 - Fish [1]	7.07 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	7.07 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	4.34 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Experimental value, GLP)
<b>Triethylenetetramine (112-24-3)</b>	
LC50 - Fish [1]	495 mg/l (96 h, Pimephales promelas, Fresh water, Literature study)
EC50 - Crustacea [1]	31.1 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Literature study)
ErC50 algae	≥ 100 mg/l (DIN 38412-9, 72 h, Scenedesmus subspicatus, Literature study, Growth)
<b>Isophorone diamine (2855-13-2)</b>	
LC50 - Fish [1]	110 mg/l (EU Method C.1, 96 h, Leuciscus idus, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	23 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
LOEC (chronic)	10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>Benzyl alcohol (100-51-6)</b>	
LC50 - Fish [1]	460 mg/l (EPA OPP 72-1, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	230 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Fresh water, Experimental value, GLP)
<b>Benzyl alcohol (100-51-6)</b>	
ErC50 algae	770 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
NOEC (chronic)	51 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

## SAFETY DATA SHEET

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### Product Name: GC POTTING EPOXY, PART B (HARDENER)

#### SECTION 12. ECOLOGICAL INFORMATION (CONTINUED)

##### 12.2. Persistence and degradability

<b>4-Nonylphenol, branched (84852-15-3)</b>	
Persistence and degradability	Biodegradability in soil: no data available. Readily biodegradable in water.
<b>Polyamide resin (68082-29-1)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>Triethylenetetramine (112-24-3)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>Isophorone diamine (2855-13-2)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>Benzyl alcohol (100-51-6)</b>	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.6 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.4 g O <sub>2</sub> /g substance
ThOD	2.5 g O <sub>2</sub> /g substance

##### 12.3. Bioaccumulative potential

<b>4-Nonylphenol, branched (84852-15-3)</b>	
BCF - Fish [1]	1200 – 1300 (OECD 305: Bioconcentration: Flow-Through Fish Test, 16 day(s), Gasterosteus aculeatus, Flow-through system, Salt water, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	5.4 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 23 °C)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
<b>Polyamide resin (68082-29-1)</b>	
Partition coefficient n-octanol/water (Log Pow)	10.34 (Calculated)
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
<b>Triethylenetetramine (112-24-3)</b>	
BCF - Other aquatic organisms [1]	3.162 (BCFBAF v3.01, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	-2.65 (Estimated value, KOWWIN)
Bioaccumulative potential	Not bioaccumulative.
<b>Isophorone diamine (2855-13-2)</b>	
BCF - Other aquatic organisms [1]	3.16 (BCFWIN, QSAR)
Partition coefficient n-octanol/water (Log Pow)	0.99 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 23 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>Benzyl alcohol (100-51-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	1 – 1.1 (Experimental value, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

### Product Name: GC POTTING EPOXY, PART B (HARDENER)

#### SECTION 12. ECOLOGICAL INFORMATION (CONTINUED)

##### 12.4. Mobility in soil

###### 4-Nonylphenol, branched (84852-15-3)

Partition coefficient n-octanol/water (Log Koc)	4.35 – 5.69 (log Koc, Other, Experimental value, GLP)
Ecology - soil	Adsorbs into the soil.

###### Polyamide resin (68082-29-1)

Surface tension	0.064 N/m (0.15 g/l, EU Method A.5: Surface tension)
Ecology - soil	No (test)data on mobility of the substance available.

###### Triethylenetetramine (112-24-3)

Partition coefficient n-octanol/water (Log Koc)	1.885 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.

###### Isophorone diamine (2855-13-2)

Surface tension	3.47 N/m (23 °C)
Partition coefficient n-octanol/water (Log Koc)	2.97 (log Koc, QSAR)
Ecology - soil	Low potential for adsorption in soil.

###### Benzyl alcohol (100-51-6)

Surface tension	39 mN/m (20 °C)
Ecology - soil	No (test)data on mobility of the substance available.

##### 12.5. Other adverse effects

No additional information available

#### SECTION 13. DISPOSAL CONSIDERATIONS

##### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.



## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

### Product Name: GC POTTING EPOXY, PART B (HARDENER)

## SECTION 14. TRANSPORT INFORMATION

### Department of Transportation (DOT)

In accordance with DOT

Transport document description (DOT)	: UN3267 Corrosive liquid, basic, organic, n.o.s. (4-Nonylphenol, branched ; Isophorone diamine), 8, III
UN-No.(DOT)	: UN3267
Proper Shipping Name (DOT)	: Corrosive liquid, basic, organic, n.o.s. 4-Nonylphenol, branched ; Isophorone diamine
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 8 - Corrosive



Dangerous for the environment	: Yes
Marine pollutant	: Yes



DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Special Provisions (49 CFR 172.102)	: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154



## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

### Product Name: GC POTTING EPOXY, PART B (HARDENER)

#### SECTION 14. TRANSPORT INFORMATION (CONTINUED)

DOT Quantity Limitations Passenger aircraft/rail : 5 L  
(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L  
CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters", 52 - Stow "separated from" acids

Emergency Response Guide (ERG) Number : 153

Other information : No supplementary information available.

#### Transportation of Dangerous Goods

Not applicable

#### Transport by sea

Transport document description (IMDG) : UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (4-Nonylphenol, branched ; Isophorone diamine), 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

UN-No. (IMDG) : 3267  
CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
4-Nonylphenol, branched ; Isophorone diamine

Class (IMDG) : 8 - Corrosive substances

Packing group (IMDG) : III - substances presenting low danger

Limited quantities (IMDG) : 5 L

Marine pollutant : Yes



#### Air transport

Transport document description (IATA) : UN 3267 Corrosive liquid, basic, organic, n.o.s. (4-Nonylphenol, branched ; Isophorone diamine), 8, III, ENVIRONMENTALLY HAZARDOUS

UN-No. (IATA) : 3267

Proper Shipping Name (IATA) : Corrosive liquid, basic, organic, n.o.s.  
4-Nonylphenol, branched ; Isophorone diamine

Class (IATA) : 8 - Corrosives

Packing group (IATA) : III - Minor Danger

**SAFETY DATA SHEET**

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**Product Name: GC POTTING EPOXY, PART B (HARDENER)****SECTION 15. REGULATORY INFORMATION****15.1. US Federal regulations**

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

4-Nonylphenol, branched

CAS-No. 84852-15-3

10 – 30%

**4-Nonylphenol, branched (84852-15-3)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Subject to reporting requirements of United States SARA Section 313

EPA TSCA Regulatory Flag

SP - SP - indicates a substance that is identified in a proposed Significant New Use Rule.

**Polyamide resin (68082-29-1)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

**Triethylenetetramine (112-24-3)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Isophorone diamine (2855-13-2)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**15.2. International regulations****CANADA****4-Nonylphenol, branched (84852-15-3)**

Listed on the Canadian DSL (Domestic Substances List)

**Polyamide resin (68082-29-1)**

Listed on the Canadian DSL (Domestic Substances List)

**Triethylenetetramine (112-24-3)**

Listed on the Canadian DSL (Domestic Substances List)

**Isophorone diamine (2855-13-2)**

Listed on the Canadian DSL (Domestic Substances List)

**Benzyl alcohol (100-51-6)**

Listed on the Canadian DSL (Domestic Substances List)

**EU-Regulations**

Contains the following REACH ingredient(s): 4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] (EC 284-325-5, CAS 84852-15-3)

**National regulations**

No additional information available

## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

### Product Name: GC POTTING EPOXY, PART B (HARDENER)

#### SECTION 15. REGULATORY INFORMATION (CONTINUED)

##### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Triethylenetetramine(112-24-3)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List
Isophorone diamine(2855-13-2)	U.S. - New Jersey - Right to Know Hazardous Substance List
Benzyl alcohol(100-51-6)	U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) List

#### SECTION 16. OTHER INFORMATION

Full text of H-phrases:

H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects



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Supersedes Date: 09/30/2015

## **SAFETY DATA SHEET**

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**Product Name: GC POTTING EPOXY, PART B (HARDENER)**

### **SECTION 17. DISCLAIMER**

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