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Section 1 Identification

Product identifiers

Product name: Miapoxy 100 Resin

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

Identified uses: Epoxy constituent

Details of the supplier of the safety data sheet

Freeman Manufacturing and Supply Company

1101 Moore Road, Avon, OH 44011

Phone (440) 934-1902 FAX (440) 934-7200

24 Hour emergency telephone number: CHEMTREC (800) 424-9300

Section 2 Hazards Identification

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 2A

Skin Sensitization, Category 1

Acute Aquatic Toxicity, Category 2

Chronic Aquatic Toxicity, Category 2

GHS Label elements, including precautionary statements





Signal word

Warning

Hazard statements

Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effect.

Precautionary statements

Prevention

Avoid breathing dust/fume/gas/mist/vapour/spray.

Wash skin thoroughly after handling

Keep container tightly closed when not in use.

Avoid release to the environment.

Wear protective gloves/eye protection/face protection.

Do not eat, drink or smoke when using this product.

Response

If on skin: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

If in eyes: Rinse continuously with water for at least 15 minutes.

Remove contact lenses, if present and easy to do.

If eye irritation persists: Get medical advice/attention.



Section 2 Hazards Identification continued

Storage

Store in a well-ventilated place. Keep cool.

Disposal

Dispose of contents and container to an appropriate waste site in accordance with local and national regulations.

Hazards not otherwise classified (HNOC) or not covered by GHS

None known

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)	
Bisphenol A Diglycidyl Ether Resin	1675-54-3	70-90	
Oxirane, 2-((C12-14-alkyloxy)methyl) derivs.	68609-97-2	10-20	
4-tert-Butylphenyl glycidyl ether	3101-60-8	5-10	

Both 25068-38-6 and 1675-54-3 can be used to describe the epoxy resin which is produced through the reaction of bisphenol A and epichlorohydrin

Section 4 First-Aid Measures

If inhaled

Move person into fresh air. Get medical attention if symptoms occur.

In case of skin contact

Wash off with soap and plenty of water. Get medical attention if skin irritation persists.

In case of eye contact

Immediately flush eyes with water for at least 15 minutes. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed

Keep respiratory tract clear. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Provided the patient is conscious, wash out mouth with water. Get medical attention if symptoms appear.

Most important symptoms and effects, both acute and delayed

None known

Notes to physician

Treat symptomatically

Section 5 Fire-Fighting Measures

Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not use high volume water jet

Hazardous combustion products

Carbon dioxide, carbon monoxide and halogenated compounds.

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Do not allow run-off from firefighting to enter drains or water courses.

Collect contaminated fire extinguishing water separately and dispose of in accordance with local regulations.

Date of Preparation: May 1, 2019 Page 2 of 7



Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For personal protection see section 8.

Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material such as sand, earth, and vermiculite. Sweep up and place in suitable containers for disposal.

Keep in suitable, closed containers for disposal.

Section 7 Handling and Storage

Precautions for safe handling

Do not breathe fumes or vapor. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labelled containers.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

Contains no substance with occupational exposure limit values.

Exposure controls

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits.

An eye wash station and safety shower should be located near the workstation.

Personal protective equipment

Eye/face protection

Wear safety goggles. Wear face-shield and protective suit for abnormal processing problems.

Skin protection

Hand Protection

The suitability for a specific workplace should be discussed with the producers of the protective gloves. Contaminated gloves should be replaced.

Body Protection

Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory Protection

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

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Section 8 Exposure Controls/Personal Protection continued

General Hygienic Practices

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

Section 9 Physical and Chemical Properties

Appearance Clear liquid
Odor Slight epoxy-like
Odor threshold No data available
pH No data available
Melting point No data available
VOC Content No data available
Initial boiling point & boiling range
Flash point(estimated, closed cup) >93.33°C (>199.99°F)

Evaporation rate <1

Flammability (solid, gas)
Upper/lower flammability
Vapor pressure
Vapor density
No data available
<1.3 hPa (68°F)
No data available

Relative density1.15Density1.1 g/cm³Water solubilityNegligible

Coefficient: n-octanol/ waterNo data availableAuto-ignition temperatureNo data availableViscosity, dynamic750 mPa (68°F)Explosive propertiesNo data availableOxidizing propertiesNo data available

Section 10 Stability and Reactivity

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under recommended storage conditions

Possibility of hazardous reactions

None known

Conditions to avoid

None known

Incompatible materials

None known

Hazardous decomposition products

Carbon monoxide, carbon dioxide, and halogenated compounds

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Section 11 Toxicological Information

Information on toxicological effects

Acute oral toxicity

Acute inhalation toxicity

Acute dermal toxicity

No data available on the product itself

No data available on the product itself

No data available on the product itself

Skin corrosion/irritation Irritating to skin **Serious eye damage/eye irritation** Mild eye irritant

Respiratory or skin sensitization May cause skin sensitization **Germ cell mutagenicity** No data available on product

Carcinogenicity

IARC No component of this product present at levels greater than or equal to 0.1%

is identified as a probable, possible or confirmed human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen by ACGIH.

NTP Talc, Known to be a human carcinogen by NTP. is identified as a known or

anticipated carcinogen.

OSHA No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity No data available

Specific target organ toxicity

- single exposure No data available

Specific target organ toxicity

- repeated exposure No data available

Section 12 Ecological Information

Toxicity
Persistence and degradability
Bioaccumulative potential
Mobility in soil
Results of PBT & vPvB assessment

Harmful to aquatic life
No data available
No data available
No data available

Section 13 Disposal Considerations

The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations. Dispose of contents/ container to an approved waste disposal plant. Do not re-use empty containers.

Section 14 Transport Information

DOT: Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy

Resin)

Hazard Class: 9 ID No.: UN 3082 Packing Group: III Label: Class 9 ERG Code: 171

Marine pollutant: yes (Bisphenol A Epoxy Resin)

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Section 14 Transport Information

IATA Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy

Resin)

Hazard Class: 9
ID No.: UN 3082
Packing Group: III
Label: Miscellaneous

Packing instruction (cargo aircraft): 964 Packing instruction (Passenger aircraft): 964

IMDG: Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy

Resin)

Hazard Class: 9 ID No.: UN 3082 Packing Group: III

Label: 9

EmS Code: F-A, S-F **Marine pollutant:** yes

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15 Regulatory Information

US Federal Regulations

SARA 311/312 Hazards: Skin corrosion or irritation, Serious eye damage or eye irritation Respiratory or skin sensitization

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimis) reporting levels established by SARA Title III, Section 313. **U.S. Clean Air Act Section 112:** This product does not contain any hazardous air pollutnts (HAP).

US State Regulations

California Proposition 65: AWARNING: This product can expose you to chemicals including 4,4'-isopropylidenediphenol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

US Toxic Substance Control Act (TSCA)

TSCA Inventory Status: On the inventory, or in compliance with the inventory.

TSCA - 5(a) Significant New Use Rule List of Chemicals: No substances are subject to a Significant New Use Rule.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt D): No substances are subject to TSCA 12(b) export notification requirements.

Inventories

DSL: This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.

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Section 16 Other Information

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The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

Date of Preparation: May 1, 2019 Page 7 of 7



Section 1 Identification

Product identifiers

Product name: Mia 95 Hardener

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

Identified uses: Hardener

Details of the supplier of the safety data sheet

Freeman Manufacturing and Supply Company

1101 Moore Road, Avon, OH 44011

Phone (440) 934-1902 FAX (440) 934-7200

24 Hour emergency telephone number: CHEMTREC (800) 424-9300

Section 2 Hazards Identification

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

Acute toxicity (Dermal), Category 4

Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 1

Skin Sensitization, Category 1

Acute Aquatic Toxicity, Category 2

Chronic Aquatic Toxicity, Category 2

GHS Label elements, including precautionary statements







Signal word

Danger

Hazard statements

Causes serious eye damage.

Harmful in contact with skin

Causes skin irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

Avoid breathing dust/fume/gas/mist/vapour/spray.

Wash skin thoroughly after handling

Avoid release to the environment.

Wear protective gloves/eye protection/face protection.

Response

If swallowed: Rinse mouth. Do not induce vomiting.

If on skin: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

If in eyes: Rinse continuously with water for at least 15 minutes.

Remove contact lenses, if present and easy to do.

If eye irritation persists: Get medical advice/attention.

If inhaled: Remove person to fresh air. Get medical advice/attention.

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Section 2 Hazards Identification continued

Storage

Store in a well-ventilated place. Keep cool.

Disposal

Dispose of contents and container to an appropriate waste site in accordance with local and national regulations.

Hazards not otherwise classified (HNOC) or not covered by GHS

None known

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)		
Triethylenetetramine, propoxylated	26950-63-0	50-70		
Triethylenetetramine	112-24-3	30-50		

Section 4 First-Aid Measures

If inhaled

Move person into fresh air. If symptoms occur, seek medical attention.

In case of skin contact

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Take victim immediately to hospital. If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact

Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed

Keep respiratory tract clear. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed

None known

Note to physicaian

Treat symptomatically

Section 5 Fire-Fighting Measures

Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not use high volume water jet

Hazardous combustion products

Carbon dioxide, carbon monoxide and halogenated compounds.

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Do not allow run-off from firefighting to enter drains or water courses.

Collect contaminated fire extinguishing water separately and dispose of in accordance with local regulations.

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Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For personal protection see section 8.

Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material such as sand, earth, and vermiculite. Sweep up and place in suitable containers for disposal.

Keep in suitable, closed containers for disposal.

Section 7 Handling and Storage

Precautions for safe handling

Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

To avoid spills during handling keep bottle on a metal tray.

Dispose of rinse water in accordance with local and national regulations.

Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Observe label precautions. Keep in properly labelled containers.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

Contains no substance with occupational exposure limit values.

Exposure controls

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits.

An eye wash station and safety shower should be located near the workstation.

Personal protective equipment

Eve/face protection

Wear safety goggles. Wear face-shield and protective suit for abnormal processing problems.

Skin protection

Hand Protection

The suitability for a specific workplace should be discussed with the producers of the protective gloves. Contaminated gloves should be replaced.

Body Protection

Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory Protection

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

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Section 8 Exposure Controls/Personal Protection continued

General Hygienic Practices

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

Section 9 Physical and Chemical Properties

Appearance Amber liquid Odor Amine-like Odor threshold No data available рН No data available **Melting** point No data available **VOC Content** No data available **Boiling point** No data available Flash point (closed cup) >148°C (>300°F) **Evaporation rate** No data available Flammability (solid, gas) No data available **Upper/lower flammability** No data available Vapor pressure <1.3 hPa (21°C) Vapor density No data available

Relative density 1.02

Water solubility
Coefficient: n-octanol/ water
Auto-ignition temperature
Viscosity
No data available

Section 10 Stability and Reactivity

Reactivity

No dangerous reactions known under conditions of normal use.

Chemical stability

Stable under recommended storage conditions

Possibility of hazardous reactions

None known

Conditions to avoid

None known

Incompatible materials

None known

Hazardous decomposition products

Carbon monoxide, carbon dioxide, and nitrogen oxides

Date of Preparation: May 1, 2019 Page 4 of 6



Section 11 Toxicological Information

Information on toxicological effects

Acute oral toxicity 2,729 mg/kg (estimate)

Acute inhalation toxicityNo data available on the product itself

Acute dermal toxicity 1,950 mg/kg (estimate)

Skin corrosion/irritation Irritating to skin

Serious eye damage/eye irritation May cause eye irritation

Respiratory or skin sensitization Causes sensitization by skin contact **Germ cell mutagenicity** No data available on product

Carcinogenicity

IARC No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen by IARC.

NTP No component of this product present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by NTP.

OSHA No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicityNo data available

Specific target organ toxicity

- single exposure No data available

Specific target organ toxicity

repeated exposureAspiration hazardNo data available

Section 12 Ecological Information

ToxicityHarmful to aquatic lifePersistence and degradabilityNo data availableBioaccumulative potentialNo data availableMobility in soilNo data availableResults of PBT & vPvB assessmentNo data available

Section 13 Disposal Considerations

The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations. Dispose of contents/ container to an approved waste disposal plant. Do not re-use empty containers.

Section 14 Transport Information

DOTNot regulated as a dangerous goods**IMDG**Not regulated as a dangerous goods**IATA**Not regulated as a dangerous goods

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Section 15 Regulatory Information

US Federal Regulations

SARA 311/312 Hazards: Acute toxicity (any route of exposure), Skin corrosion or irritation, Serious eye damage or eye irritation, Respiratory or skin sensitisation

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimis) reporting levels established by SARA Title III, Section 313. **U.S. Clean Air Act Section 112:** This product does not contain any hazardous air pollutants (HAP).

US State Regulations

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

US Toxic Substance Control Act (TSCA)

TSCA Inventory Status: On the inventory, or in compliance with the inventory.

TSCA - 5(a) Significant New Use Rule List of Chemicals: No substances are subject to a Significant New Use Rule.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt D): No substances are subject to TSCA 12(b) export notification requirements.

Inventories

DSL: This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.

Section 16 Other Information

Disclaimer

The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

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Section 1 Identification

Product identifiers

Product name: Mia 97 Hardener

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

Identified uses: Hardener

Details of the supplier of the safety data sheet

Freeman Manufacturing and Supply Company

1101 Moore Road, Avon, OH 44011

Phone (440) 934-1902 FAX (440) 934-7200

24 Hour emergency telephone number: CHEMTREC (800) 424-9300

Section 2 Hazards Identification

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 1

Skin Sensitization, Category 1

Reproductive Toxicity, Category 2

Acute Aquatic Toxicity, Category 2

Chronic Aquatic Toxicity, Category 2

GHS Label elements, including precautionary statements









Signal word

Danger

Hazard statements

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

Suspected of damaging fertility or the unborn child.

Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

Avoid breathing dust/fume/gas/mist/vapor/spray.

Wash skin thoroughly after handling

Avoid release to the environment.

Wear protective gloves/eye protection/face protection.

Response

If swallowed: Rinse mouth. Do not induce vomiting.

If on skin: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

If in eyes: Rinse continuously with water for at least 15 minutes.

Remove contact lenses, if present and easy to do.

If eye irritation persists: Get medical advice/attention.

If inhaled: Remove person to fresh air. Get medical advice/attention.

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Section 2 Hazards Identification continued

Storage

Store in a well-ventilated place. Keep cool.

Disposal

Dispose of contents and container to an appropriate waste site in accordance with local and national regulations.

Hazards not otherwise classified (HNOC) or not covered by GHS

None known

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)		
Triethylenetetramine, propoxylated	26950-63-0	50-70		
Triethylenetetramine	112-24-3	30-50		
Salicylic acid	69-72-7	10-20		
Phenil, 4-nonyl-,branched	84852-15-3	0.25-1		

Section 4 First-Aid Measures

If inhaled

Move person into fresh air. If symptoms occur, seek medical attention.

In case of skin contact

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Take victim immediately to hospital. If on skin, rinse well with water. If on clothes, remove clothes.

In case of eve contact

Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed

Keep respiratory tract clear. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed

None known

Note to physician

Treat symptomatically

Section 5 Fire-Fighting Measures

Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not use high volume water jet

Hazardous combustion products

Carbon dioxide, carbon monoxide and halogenated compounds.

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary. Do not allow run-off from firefighting to enter drains or water courses. Collect contaminated fire extinguishing water separately and dispose of in accordance with local regulations.

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Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For personal protection see section 8.

Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material such as sand, earth, and vermiculite. Sweep up and place in suitable containers for disposal.

Keep in suitable, closed containers for disposal.

Section 7 Handling and Storage

Precautions for safe handling

Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

To avoid spills during handling keep bottle on a metal tray.

Dispose of rinse water in accordance with local and national regulations.

Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Observe label precautions. Keep in properly labelled containers.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

Contains no substance with occupational exposure limit values.

Exposure controls

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits.

An eye wash station and safety shower should be located near the workstation.

Personal protective equipment

Eve/face protection

Wear safety goggles. Wear face-shield and protective suit for abnormal processing problems.

Skin protection

Hand Protection

The suitability for a specific workplace should be discussed with the producers of the protective gloves. Contaminated gloves should be replaced.

Body Protection

Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory Protection

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

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Section 8 Exposure Controls/Personal Protection continued

General Hygienic Practices

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

Section 9 Physical and Chemical Properties

Appearance Amber liquid Odor Slight amine-like Odor threshold No data available рН No data available **Melting** point No data available **VOC Content** No data available **Boiling point** No data available Flash point (open cup) >171°C (>340°F) **Evaporation rate** No data available Flammability (solid, gas) No data available Upper/lower flammability No data available Vapor pressure No data available **Vapor density** No data available **Relative density** 1.02-10.6 Water solubility Partly soluble Coefficient: n-octanol/water No data available **Auto-ignition temperature** No data available Viscosity No data available **Explosive properties** No data available Oxidizing properties No data available % Volatile No data available

Section 10 Stability and Reactivity

Reactivity

No dangerous reactions known under conditions of normal use.

Chemical stability

Stable under recommended storage conditions

Possibility of hazardous reactions

None known

Conditions to avoid

None known

Incompatible materials

None known

Hazardous decomposition products

Carbon monoxide, carbon dioxide, and nitrogen oxides

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Section 11 Toxicological Information

Information on toxicological effects

Acute oral toxicity 2,282 mg/kg (estimate)

Acute inhalation toxicityNo data available on the product itself

Acute dermal toxicity 2,192 mg/kg (estimate)
Skin corrosion/irritation Severely irritating to skin
Causes eye irritation

Respiratory or skin sensitization Causes sensitization by skin contact **Germ cell mutagenicity** No data available on product

Carcinogenicity

IARC No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen by IARC.

NTP No component of this product present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by NTP.

OSHA No component of this product present at levels greater than or equal to 0.1%

is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicityNo data available

Specific target organ toxicity

- single exposure No data available

Specific target organ toxicity

repeated exposureAspiration hazardNo data available

Section 12 Ecological Information

ToxicityHarmful to aquatic lifePersistence and degradabilityNo data availableBioaccumulative potentialNo data availableMobility in soilNo data availableResults of PBT & vPvB assessmentNo data available

Section 13 Disposal Considerations

The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations. Dispose of contents/ container to an approved waste disposal plant. Do not re-use empty containers.

Section 14 Transport Information

DOT: Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Triethylene

Tetramine Propoxylated)

Hazard Class: 9
ID No.: UN 3082
Packing Group: III
Label: Class 9
ERG Code: 171

Marine pollutant: yes (Triethylene Tetramine Propoxylated)

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Section 14 Transport Information

Remarks: Different package sizes may lead to a non-regulated classification. Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

IATA Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Triethylene

Tetramine Propoxylated)

Hazard Class: 9
ID No.: UN 3082
Packing Group: III
Label: Miscellaneous

Packing instruction (cargo aircraft): 964 Packing instruction (Passenger aircraft): 964

IMDG: **Shipping Name**: Environmentally hazardous substance, liquid, n.o.s. (Triethylene

Tetramine Propoxylated)

Hazard Class: 9 ID No.: UN 3082 Packing Group: III

Label: 9

EmS Code: F-A, S-F **Marine pollutant:** yes

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15 Regulatory Information

US Federal Regulations

SARA 311/312 Hazards: Serious eye damage or eye irritation, Respiratory or skin sensitization, Reproductive toxicity, Skin corrosion or irritation

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimis) reporting levels established by SARA Title III, Section 313. **U.S. Clean Air Act Section 112:** This product does not contain any hazardous air pollutants (HAP).

US State Regulations

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

US Toxic Substance Control Act (TSCA)

TSCA Inventory Status: On the inventory, or in compliance with the inventory.

TSCA - 5(a) Significant New Use Rule List of Chemicals: This product is subject under TSCA 5(a) to Significant New Use Restrictions (SNUR). Phenol, 4-nonyl-, branched

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt D): US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D) Phenol, 4-nonyl-, branched

Inventories

DSL: This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.

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Section 16 Other Information

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The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

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