



Material Safety Data Sheet

Material Name: ROP 435 - Part A

ID: SAH00013

*** Section 1 - Chemical Product and Company Identification ***

Material Name: ROP 435 - Part A

Product Use

Adhesive

Manufacturer Information

Roppe Corporation

1602 North Union St

Fostoria, OH 44830-1158

Phone: 1-800-537-9527

Phone: 1-419-435-8546

Fax: 1-419-435-1056

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPLOSION, EXPOSURE OR ACCIDENT, CONTACT THE FOLLOWING NUMBERS:

Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-631-996-6666

*** Section 2 - Hazards Identification ***

Emergency Overview

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication). This product is irritating to the eyes, respiratory system and skin. May cause sensitization by skin contact. This product may be harmful or fatal if swallowed.

Hazard Statements

CAUTION! IRRITANT. ALLERGEN. Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. May be harmful or fatal if swallowed. Wear suitable gloves and eye/face protection. Keep out of the reach of children.

Potential Health Effects: Eyes

This product is irritating to the eyes.

Potential Health Effects: Skin

This product is irritating to the skin. Prolonged contact with this product may cause allergic skin sensitization reactions.

Potential Health Effects: Ingestion

This product may be harmful or fatal if swallowed. Ingestion of this product may cause nausea, vomiting and diarrhea.

Potential Health Effects: Inhalation

This product is irritating to the respiratory system.

Medical Conditions Aggravated by Exposure

Hypersensitivity to product, allergies, and skin or respiratory disorders

Potential Environmental Effects

None identified.

HMIS Ratings: Health: 2 Fire: 0 Reactivity: 1 Pers. Prot.: Safety glasses, gloves

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
1317-65-3	Limestone	15-40
25085-99-8	Epoxy Resin	15-40
Proprietary	Alkyl phenol blocked polyisocyanate	10-30

Material Safety Data Sheet

Material Name: ROP 435 - Part A

ID: SAH00013

2210-79-9	o-Cresylglycidyl Ether	5-10
57-55-6	1,2-Propylene glycol	1-5
27138-31-4	Propanol, oxybis-, dibenzoate	1-5
67762-90-7	Dimethyl silicone polymer with silica	1-5
Proprietary	Alkyl Quaternary Ammonium Clay	0.5-1.5

*** Section 4 - First Aid Measures ***

First Aid: Eyes

In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. If irritation persists get medical attention.

First Aid: Skin

For skin contact, flush with large amounts of water. If irritation persists, get medical attention.

First Aid: Ingestion

For ingestion, flush out mouth with water. If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting.

First Aid: Inhalation

If inhaled, immediately remove the affected person to fresh air. If the affected person is not breathing, apply artificial respiration. If symptoms persist, get medical attention.

First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

This product is an aqueous mixture which will not burn. If evaporated to dryness, the solid residue may pose a moderate fire hazard.

Hazardous Combustion Products

Irritating and toxic gases or fumes may be released during a fire. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Extinguishing Media

Dry chemical (preferred), foam, water.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

NFPA Ratings: Health: 2 Fire: 0 Reactivity: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Personal Precautions

Wear appropriate protective equipment and clothing during clean-up.

Containment Procedures

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Scoop up used absorbent into drums or other appropriate container.

Environmental Precautions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Clean-Up Procedures

Attempt to reclaim the free product, if this is possible. Shovel the material into waste container. Thoroughly wash the area with water after a spill or leak clean-up. Keep out of the reach of children.

Evacuation Procedures

None identified.

Special Procedures

Regulations vary. Consult local authorities before disposal.

Material Safety Data Sheet

Material Name: ROP 435 - Part A

ID: SAH00013

*** Section 7 - Handling and Storage ***

Handling Procedures

Avoid getting this material into contact with your skin and eyes. Avoid breathing vapors or mists of this product. Wash hands after handling and before eating. Keep out of the reach of children.

Storage Procedures

Store in a cool, dry, well-ventilated area. Store at ambient temperature and atmospheric pressure. Keep out of sun.

*** Section 8 - Exposure Controls / Personal Protection ***

A: Component Exposure Limits

Limestone (1317-65-3)

OSHA (Final):	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
NIOSH:	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
Alberta:	10 mg/m3 TWA
British Columbia:	10 mg/m3 TWA (total dust); 3 mg/m3 TWA (respirable fraction) 20 mg/m3 STEL (total dust)
New Brunswick:	10 mg/m3 TWA (particulate matter containing no asbestos and < 1% crystalline silica)
NW Territories:	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Nunavut:	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Quebec:	10 mg/m3 TWAEV (total dust, containing no asbestos and less than 1% crystalline silica)
Saskatchewan:	10 mg/m3 TWA 20 mg/m3 STEL
Yukon:	30 mppcf TWA; 10 mg/m3 TWA 20 mg/m3 STEL

1,2-Propylene glycol (57-55-6)

Ontario:	50 ppm TWAEV (total aerosol and vapour); 155 mg/m3 TWAEV (total aerosol and vapour); 10 mg/m3 TWAEV (aerosol only, for assessing the visibility in a work environment)
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Engineering Controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Local exhaust is suggested for use, where possible, in enclosed or confined spaces.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields.

Personal Protective Equipment: Skin

The use of nitrile-latex gloves is recommended.

Personal Protective Equipment: Respiratory

Not normally needed. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Personal Protective Equipment: General

Laundry contaminated clothing before reuse. Use good industrial hygiene practices in handling this material.

*** Section 9 - Physical & Chemical Properties ***

Material Safety Data Sheet

Material Name: ROP 435 - Part A

ID: SAH00013

Appearance:	Paste	Odor:	Epoxy Odor
Physical State:	N/A	pH:	N/A
Vapor Pressure:	N/A	Vapor Density:	N/A
Boiling Point:	N/A	Melting Point:	N/A
Solubility (H2O):	N/A	Specific Gravity:	1.37
Evaporation Rate:	N/A	VOC:	N/A
Octanol/H2O Coeff.:	N/A	Flash Point:	N/A
Flash Point Method:	N/A	Upper Flammability Limit (UFL):	N/A
Lower Flammability Limit (LFL):	N/A	Burning Rate:	N/A
Auto Ignition:	N/A		

Physical Properties: Additional Information

The data provided in this section is to be used for product safety handling purposes. Please refer to Product Data Sheets, Certificates of Conformity or Certificates of Analysis for chemical and physical data for determinations of quality and for formulation purposes.

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable under normal conditions.

Chemical Stability: Conditions to Avoid

Do not freeze.

Incompatibility

This product may react with strong acids, bases and oxidizing agents.

Hazardous Decomposition

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Upon decomposition, this product may emit fumes of carbon monoxide, carbon dioxide, oxides of nitrogen, and other organic compounds.

Possibility of Hazardous Reactions

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Dose Effects

A: General Product Information

No information available for the product.

B: Component Analysis - LD50/LC50

o-Cresylglycidyl Ether (2210-79-9)

Inhalation LC50 Rat: 6090 mg/m³/4H; Oral LD50 Rat: 4 g/kg

1,2-Propylene glycol (57-55-6)

Oral LD50 Rat: 20000 mg/kg; Dermal LD50 Rabbit: 20800 mg/kg

Carcinogenicity

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Sensitization

No information available for the product.

Material Safety Data Sheet

Material Name: ROP 435 - Part A

ID: SAH00013

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

1,2-Propylene glycol (57-55-6)

Test & Species		Conditions
96 Hr LC50 Oncorhynchus mykiss	51600 mg/L	[static]
96 Hr LC50 Oncorhynchus mykiss	41-47 ml/L	[static]
96 Hr LC50 Pimephales promelas	51400 mg/L	[static]
96 Hr LC50 Pimephales promelas	710 mg/L	
96 Hr EC50 Selenastrum capricornutum	19000 mg/L	

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

No additional information available.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

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

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 - Transportation Information ***

International Transportation Regulations

Not regulated as dangerous goods.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List. All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List unless otherwise noted.

B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

A: General Product Information

Other state regulations may apply. Check individual state requirements.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Limestone	1317-65-3	No	Yes	Yes	Yes	Yes	Yes
1,2-Propylene glycol	57-55-6	No	No	Yes	Yes	Yes	Yes

Material Safety Data Sheet

Material Name: ROP 435 - Part A

ID: SAH00013

Canadian WHMIS Information

A: General Product Information



B: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
1,2-Propylene glycol	57-55-6	1 %

Additional Regulatory Information

A: General Product Information

Supplier(s) of proprietary component(s) state that these components are contained on the TSCA inventory.

B: Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Limestone	1317-65-3	Yes	NDSL	EINECS
Epoxy Resin	25085-99-8	Yes	DSL	No
o-Cresylglycidyl Ether	2210-79-9	Yes	DSL	EINECS
1,2-Propylene glycol	57-55-6	Yes	DSL	EINECS
Propanol, oxybis-, dibenzoate	27138-31-4	Yes	DSL	EINECS
Dimethyl silicone polymer with silica	67762-90-7	Yes	DSL	No

* * * Section 16 - Other Information * * *

Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

Key/Legend

NA = Not available or Not Applicable. ACGIH = American Conference of Governmental Industrial Hygienists. NFPA = National Fire Protection Association. EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

End of Sheet SAH00013



Material Safety Data Sheet

Material Name: ROP 435 - Part B

ID: SAH00014

*** Section 1 - Chemical Product and Company Identification ***

Material Name: ROP 435 - Part B

Product Use

Adhesive

Manufacturer Information

Roppe Corporation

1602 North Union St

Fostoria, OH 44830-1158

Phone: 1-800-537-9527

Phone: 1-419-435-8546

Fax: 1-419-435-1056

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPLOSION, EXPOSURE OR ACCIDENT, CONTACT THE FOLLOWING NUMBERS:

Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-631-996-6666

*** Section 2 - Hazards Identification ***

Emergency Overview

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication). Causes burns to the skin and eyes. Risk of serious damage to eyes. Irritating to respiratory system.

Hazard Statements

DANGER! CORROSIVE. Causes burns to the skin and eyes. Irritating to respiratory system. Wear suitable gloves, eye/face protection, and respiratory protection. Keep out of the reach of children.

Potential Health Effects: Eyes

This product is severely irritating to the eyes and may cause eye burns.

Potential Health Effects: Skin

This product is severely irritating to the skin and may cause burns. Prolonged contact with this product may cause allergic skin sensitization reactions.

Potential Health Effects: Ingestion

Ingestion of this product may cause nausea, vomiting and diarrhea.

Potential Health Effects: Inhalation

This product is irritating to the respiratory system. This product may cause sensitization by inhalation.

Medical Conditions Aggravated by Exposure

Hypersensitivity to product, allergies, and skin or respiratory disorders

Potential Environmental Effects

None identified.

HMIS Ratings: Health: 2 Fire: 0 Reactivity: 1 Pers. Prot.: Safety glasses, gloves, synthetic apron, vapor respirator if airborne concentrations exceed exposure limits

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
52338-87-1	Urea, N,N'-bis[3-(dimethylamino)propyl]-	30-60
111-40-0	Diethylene triamine	15-40
68610-56-0	Epoxy Resin	10-30
80-05-7	Bisphenol A	10-30

Material Safety Data Sheet

Material Name: ROP 435 - Part B

ID: SAH00014

*** Section 4 - First Aid Measures ***

First Aid: Eyes

In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. If irritation persists get medical attention.

First Aid: Skin

For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.

First Aid: Ingestion

For ingestion, flush out mouth with water. Get medical attention or advice. Do not induce vomiting.

First Aid: Inhalation

If inhaled, immediately remove the affected person to fresh air. If the affected person is not breathing, apply artificial respiration. If symptoms persist, get medical attention.

First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

This product is an aqueous mixture which will not burn. If evaporated to dryness, the solid residue may pose a moderate fire hazard.

Hazardous Combustion Products

Irritating and toxic gases or fumes may be released during a fire. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Extinguishing Media

Dry chemical (preferred), foam, water.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA Ratings: Health: 3 Fire: 0 Reactivity: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Personal Precautions

Wear appropriate protective equipment and clothing during clean-up.

Containment Procedures

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Scoop up used absorbent into drums or other appropriate container.

Environmental Precautions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Clean-Up Procedures

Attempt to reclaim the free product, if this is possible. Shovel the material into waste container. Thoroughly wash the area with water after a spill or leak clean-up. Keep out of the reach of children.

Evacuation Procedures

None identified.

Special Procedures

Regulations vary. Consult local authorities before disposal.

*** Section 7 - Handling and Storage ***

Handling Procedures

Avoid getting this material into contact with your skin and eyes. Avoid breathing vapors or mists of this product. Wash hands after handling and before eating. Keep out of the reach of children.

Material Safety Data Sheet

Material Name: ROP 435 - Part B

ID: SAH00014

Storage Procedures

Store in a cool, dry, well-ventilated area. Store at ambient temperature and atmospheric pressure. Store away from strong oxidizers.

* * * Section 8 - Exposure Controls / Personal Protection * * *

A: Component Exposure Limits

Diethylene triamine (111-40-0)

ACGIH:	1 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route
NIOSH:	1 ppm TWA; 4 mg/m ³ TWA Potential for dermal absorption
Alberta:	1 ppm TWA; 4.2 mg/m ³ TWA Substance may be readily absorbed through intact skin
British Columbia:	Sensitizer 1 ppm TWA Skin notation
Manitoba:	1 ppm TWA
New Brunswick:	1 ppm TWA; 4.2 mg/m ³ TWA Skin - potential for cutaneous absorption
NW Territories:	1 ppm TWA; 4 mg/m ³ TWA 3 ppm STEL; 13 mg/m ³ STEL Skin notation
Nova Scotia:	1 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route
Nunavut:	1 ppm TWA; 4 mg/m ³ TWA 3 ppm STEL; 13 mg/m ³ STEL Skin notation
Ontario:	1 ppm TWAEV; 4 mg/m ³ TWAEV Absorption through skin, eyes, or mucous membranes
Quebec:	1 ppm TWAEV; 4.2 mg/m ³ TWAEV Skin designation
Saskatchewan:	1 ppm TWA 2 ppm STEL
Yukon:	1 ppm TWA; 4 mg/m ³ TWA 1 ppm STEL; 4 mg/m ³ STEL Skin notation

Bisphenol A (80-05-7)

Yukon:	0.5 ppm Ceiling; 2.8 ppm Ceiling
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Engineering Controls

Use general ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields.

Personal Protective Equipment: Skin

The use of nitrile-latex gloves is recommended.

Personal Protective Equipment: Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Personal Protective Equipment: General

Laundry contaminated clothing before reuse. Use good industrial hygiene practices in handling this material.

Material Safety Data Sheet

Material Name: ROP 435 - Part B

ID: SAH00014

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Liquid	Odor:	Amine odor
Physical State:	Liquid	pH:	N/A
Vapor Pressure:	N/A	Vapor Density:	N/A
Boiling Point:	N/A	Melting Point:	N/A
Solubility (H2O):	Negligible	Specific Gravity:	0.98
Evaporation Rate:	N/A	VOC:	N/A
Octanol/H2O Coeff.:	N/A	Flash Point:	N/A
Flash Point Method:	N/A	Upper Flammability Limit (UFL):	N/A
Lower Flammability Limit (LFL):	N/A	Burning Rate:	N/A
Auto Ignition:	N/A		

Physical Properties: Additional Information

The data provided in this section is to be used for product safety handling purposes. Please refer to Product Data Sheets, Certificates of Conformity or Certificates of Analysis for chemical and physical data for determinations of quality and for formulation purposes.

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable under normal conditions.

Chemical Stability: Conditions to Avoid

Do not freeze.

Incompatibility

This product may react with strong acids, bases and oxidizing agents.

Hazardous Decomposition

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Upon decomposition, this product may emit fumes of carbon monoxide, carbon dioxide, oxides of nitrogen, and other organic compounds.

Possibility of Hazardous Reactions

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Dose Effects

A: General Product Information

No information available for the product.

B: Component Analysis - LD50/LC50

Diethylene triamine (111-40-0)

Oral LD50 Rat: 819 mg/kg; Dermal LD50 Rabbit: 672 mg/kg

Bisphenol A (80-05-7)

Oral LD50 Rat: 3200 mg/kg; Dermal LD50 Rabbit: 3000 mg/kg

Carcinogenicity

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Sensitization

No information available for the product.

Material Safety Data Sheet

Material Name: ROP 435 - Part B

ID: SAH00014

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Diethylene triamine (111-40-0)

Test & Species		Conditions
96 Hr LC50 Leuciscus idus	430 mg/L	[semi-static]
96 Hr LC50 Poecilia reticulata	248 mg/L	[static]
96 Hr LC50 Poecilia reticulata	1014 mg/L	[semi-static]
72 Hr EC50 Selenastrum capricornutum	1164 mg/L	
96 Hr EC50 Selenastrum capricornutum	345.6 mg/L	
96 Hr EC50 Scenedesmus subspicatus	592 mg/L	

Bisphenol A (80-05-7)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	3.6-5.4 mg/L	[flow-through]
96 Hr LC50 Pimephales promelas	4.0-5.5 mg/L	[static]
96 Hr LC50 Oncorhynchus mykiss	4 mg/L	
96 Hr LC50 Brachydanio rerio	9.9 mg/L	[static]
96 Hr EC50 Selenastrum capricornutum	2.5 mg/L	
48 Hr EC50 water flea	10 mg/L	
48 Hr EC50 Daphnia magna	3.9 mg/L	

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

No additional information available.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

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

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Amines, liquid, corrosive, n.o.s. (Diethylene triamine , Modified Aliphatic Amine Adduct)

UN/NA #: UN2735 **Hazard Class:** 8 **Packing Group:** III

IATA Information

Shipping Name: Amines, liquid, corrosive, n.o.s. (Diethylene triamine , Modified Aliphatic Amine Adduct)

UN #: UN2735 **Hazard Class:** 8 **Packing Group:** III

TDG Information

Shipping Name: Amines, liquid, corrosive, n.o.s. (Diethylene triamine , Modified Aliphatic Amine Adduct)

UN/NA #: UN2735 **Hazard Class:** 8 **Packing Group:** III

Material Safety Data Sheet

Material Name: ROP 435 - Part B

ID: SAH00014

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List. All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List unless otherwise noted.

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Bisphenol A (80-05-7)

SARA 313: 1.0 % de minimis concentration

State Regulations

A: General Product Information

Other state regulations may apply. Check individual state requirements.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Diethylene triamine	111-40-0	Yes	Yes	Yes	Yes	Yes	Yes
Bisphenol A	80-05-7	No	Yes	No	Yes	Yes	No

Canadian WHMIS Information

A: General Product Information



B: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Diethylene triamine	111-40-0	0.1 %
Bisphenol A	80-05-7	1 %

Additional Regulatory Information

A: General Product Information

Supplier(s) of proprietary component(s) state that these components are contained on the TSCA inventory.

B: Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Urea, N,N'-bis[3-(dimethylamino)propyl]-	52338-87-1	Yes	DSL	EINECS
Diethylene triamine	111-40-0	Yes	DSL	EINECS
Epoxy Resin	68610-56-0	Yes	DSL	No
Bisphenol A	80-05-7	Yes	DSL	EINECS

*** Section 16 - Other Information ***

Reference Version (internal)

Q1-2479-05

Material Safety Data Sheet

Material Name: ROP 435 - Part B

ID: SAH00014

Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

Key/Legend

NA = Not available or Not Applicable. ACGIH = American Conference of Governmental Industrial Hygienists. NFPA = National Fire Protection Association. EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

End of Sheet SAH00014