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This is a kit that contains the following components: TAMMS AG-400 BASECOAT 4:1 PART A TAMMS AG-400 BASECOAT 4:1 PART B



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# SAFETY DATA SHEET

### 1. Identification

Product identifier: TAMMS AG-400 BASECOAT 4:1 PART A

Product Code: 254MP 05

Recommended use and restriction on use

Recommended use: Curative Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

EUCLID CHEMICAL COMPANY 19218 REDWOOD ROAD CLEVELAND OH 44110

US

Contact person:EH&S DepartmentTelephone:216-531-9222

**Emergency telephone number:** 1-800-424-9300 (US); 1-613-996-6666 (Canada)

# 2. Hazard(s) identification

### **Hazard Classification**

### **Health Hazards**

Acute toxicity (Dermal)	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Respiratory sensitizer	Category 1
Skin sensitizer	Category 1

## **Unknown toxicity - Health**

Acute toxicity, oral	54.01 %
Acute toxicity, dermal	63.01 %
Acute toxicity, inhalation, vapor	100 %
Acute toxicity inhalation dust or mist	100 %

# **Unknown toxicity - Environment**

Acute hazards to the aquatic	89.85 %
environment	
Chronic hazards to the aquatic	100 %
environment	

#### **Label Elements**

### **Hazard Symbol:**



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Signal Word: Danger

Hazard Statement: Harmful in contact with skin.

Causes skin irritation.

Causes serious eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Precautionary Statement

**Prevention:** Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling. Avoid breathing

dust/fume/gas/mist/vapors/spray. [In case of inadequate ventilation] wear respiratory protection. Contaminated work clothing must not be allowed out

of the workplace.

**Response:** If inhaled: If breathing is difficult, remove person to fresh air and keep

comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Immediately call a POISON CENTER/doctor. Specific treatment (see this label). Wash contaminated

clothing before reuse.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

### 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Petaethylene hexamine	4067-16-7	15 - 40%
1-Methoxy-2-Propanol	107-98-2	10 - 30%
Diethylenetriamine	111-40-0	7 - 13%
Tetraethylene pentamine	112-57-2	3 - 7%
Ethylene diamine	107-15-3	0.5 - 1.5%
Acetic acid	64-19-7	0.5 - 1.5%
2-Butoxyethanol (Glycol ether)	111-76-2	0.1 - 1%



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\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

Ingestion: Call a POISON CENTER/doctor/.../if you feel unwell. Rinse mouth.

**Inhalation:** Call a physician or poison control center immediately. If breathing stops,

provide artificial respiration. Move to fresh air. If breathing is difficult, give

oxygen.

Skin Contact: Call a POISON CENTER/doctor/.../if you feel unwell. Destroy or thoroughly

clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an

allergic skin reaction develops, get medical attention.

**Eye contact:** Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Call a physician or poison control center

immediately.

Most important symptoms/effects, acute and delayed

**Symptoms:** Prolonged or repeated contact with skin may cause redness, itching,

irritation and eczema/chapping. Extreme irritation of eyes and mucous

membranes, including burning and tearing.

Indication of immediate medical attention and special treatment needed

**Treatment:** Symptoms may be delayed.

5. Fire-fighting measures

**General Fire Hazards:** No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.



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### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Ventilate closed spaces before entering them. Evacuate area. Keep upwind.

Methods and material for containment and cleaning up:

Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

**Notification Procedures:** 

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

**Environmental Precautions:** 

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

# 7. Handling and storage

Precautions for safe handling:

Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. Do not get in eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good

industrial hygiene practices.

Conditions for safe storage, including any incompatibilities:

Store away from incompatible materials. Store in original tightly closed

container.

### 8. Exposure controls/personal protection

### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	type	Exposure Lin	nit Values	Source
1-Methoxy-2-Propanol	TWA	50 ppm		US. ACGIH Threshold Limit Values (02 2013)
	STEL	100 ppm		US. ACGIH Threshold Limit Values (02 2013)
Diethylenetriamine	TWA	1 ppm		US. ACGIH Threshold Limit Values (2011)
Ethylene diamine	TWA	10 ppm		US. ACGIH Threshold Limit Values (2011)
	PEL	10 ppm	25 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Acetic acid	TWA	10 ppm		US. ACGIH Threshold Limit Values (2011)
	STEL	15 ppm		US. ACGIH Threshold Limit Values (2011)
	PEL	10 ppm	25 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
2-Butoxyethanol	TWA	20 ppm		US. ACGIH Threshold Limit Values



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(Glycol ether)			(2011)
	PEL	50 ppm	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

Chemical name	type	Exposure Limit	Values	Source
1-Methoxy-2-Propanol	TWA	50 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	75 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
1-Methoxy-2-Propanol	TWAEV	100 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	STEL	150 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
1-Methoxy-2-Propanol	TWA	100 ppm	369 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
	STEL	150 ppm	553 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)



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Diethylenetriamine	TWA	1 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Diethylenetriamine	TWAEV	1 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Diethylenetriamine	TWA	1 ppm 4.2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Ethylene diamine	TWA	10 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Ethylene diamine	TWAEV	10 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Ethylene diamine	TWA	10 ppm 25 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

**Biological Limit Values** 

Chemical Identity	Exposure Limit Values	Source
2-Butoxyethanol (Glycol ether) (Butoxyacetic acid (BAA), with hydrolysis: Sampling time: End of shift.)	200 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)

# Appropriate Engineering Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

### Individual protection measures, such as personal protective equipment

**General information:** Provide easy access to water supply and eye wash facilities. Good general

ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable

level.

**Eye/face protection:** Wear a full-face respirator, if needed. Wear safety glasses with side shields

(or goggles) and a face shield.

**Skin Protection** 

**Hand Protection:** Use suitable protective gloves if risk of skin contact.



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Other: Wear chemical-resistant gloves, footwear, and protective clothing

appropriate for the risk of exposure. Contact health and safety professional

or manufacturer for specific information.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below

recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with an

appropriate, government approved (where applicable), air-purifying filter,

cartridge or canister. Contact health and safety professional or

manufacturer for specific information.

**Hygiene measures:** Avoid contact with skin. Observe good industrial hygiene practices. Do not

get in eyes. Wash contaminated clothing before reuse. Wash hands before breaks and immediately after handling the product. Contaminated work

clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

Initial boiling point and boiling range:

**Appearance** 

Physical state: liquid
Form: liquid
Color: Colorless
Odor: Mild pungent
Odor threshold: No data available.
PH: No data available.
Melting point/freezing point: No data available.

Flash Point: 93 °C 200 °F(Setaflash Closed Cup)

**Evaporation rate:** Slower than Ether

Flammability (solid, gas): No Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

Vapor pressure:

No data available.

No data available.

No data available.

Vapor density: Vapors are heavier than air and may travel along the floor and

> 137 °C > 279 °F

in the bottom of containers.

Relative density: 1.0

Solubility(ies)

Solubility in water:
Solubility (other):
Partition coefficient (n-octanol/water):
No data available.
No data available.
No data available.
Pecomposition temperature:
No data available.
Viscosity:
No data available.



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# 10. Stability and reactivity

**Reactivity:** No data available.

**Chemical Stability:** Material is stable under normal conditions.

**Possibility of Hazardous** 

Reactions:

No data available.

**Conditions to Avoid:** Avoid heat or contamination.

**Incompatible Materials:** Avoid contact with acids.

**Hazardous Decomposition** 

**Products:** 

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

# 11. Toxicological information

### Information on likely routes of exposure

**Ingestion:** May be harmful if swallowed.

**In high concentrations**, vapors, fumes or mists may irritate nose, throat and

mucus membranes.

**Skin Contact:** Harmful in contact with skin. Causes skin irritation. May cause an allergic

skin reaction.

**Eye contact:** Causes serious eye damage.

#### Information on toxicological effects

# Acute toxicity (list all possible routes of exposure)

Oral

**Product:** ATEmix: 2,488.7 mg/kg

**Dermal** 

**Product:** ATEmix: 1,547.54 mg/kg

Inhalation

**Product:** No data available.

Specified substance(s):

1-Methoxy-2-Propanol LC Lo (Rat, 4 h): 25.5 mg/l

Diethylenetriamine NOAEL (Rat): 0.07 mg/l

Ethylene diamine LC 50 (Rat): 14.7 mg/l

Acetic acid LC 50 (Rat, 4 h): 11.4 mg/l



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2-Butoxyethanol (Glycol

ether)

LC 50 (Rat, 4 h): 486 ppm

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

Petaethylene hexamine in vivo (Rabbit, 24 hrs): Highly irritating

1-Methoxy-2-Propanol in vivo (Rabbit, 24 - 72 hrs): Not irritating

Diethylenetriamine in vivo (Rabbit, 1 - 48 hrs): Corrosive

Tetraethylene

pentamine

Strongly Irritating

Ethylene diamine in vivo (Rabbit, 24 - 72 hrs): Category 1

Acetic acid in vivo (Rabbit, 1 d): Category 1

ether)

2-Butoxyethanol (Glycol in vivo (Rabbit, 24 - 72 hrs): Irritating

#### Respiratory or Skin Sensitization

Product: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause sensitization by inhalation.

Carcinogenicity

Product: No data available.

### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

#### **US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified



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### **Germ Cell Mutagenicity**

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

**Aspiration Hazard** 

**Product:** No data available.

Other effects: No data available.

# 12. Ecological information

### **Ecotoxicity:**

### Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):

Diethylenetriamine LC 50 (Guppy (Poecilia reticulata), 96 h): 1,014 mg/l Mortality

Ethylene diamine LC 50 (Fathead minnow (Pimephales promelas), 96 h): 98.6 - 131.6 mg/l

Mortality

Acetic acid LC 50 (Fathead minnow (Pimephales promelas), 96 h): 79 mg/l Mortality

2-Butoxyethanol (Glycol

ether)

LC 50 (Bluegill (Lepomis macrochirus), 96 h): 1,490 mg/l Mortality

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

Diethylenetriamine LC 50 (Water flea (Daphnia magna), 48 h): 53.5 mg/l Intoxication

Ethylene diamine EC 50 (Water flea (Daphnia magna), 24 h): 14 mg/l Intoxication

Acetic acid LC 50 (Water flea (Daphnia magna), 24 h): 47 mg/l Mortality

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2-Butoxyethanol (Glycol

ether)

LC 50 (Water flea (Daphnia magna), 24 h): 1,720 mg/l Mortality

### Chronic hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

Specified substance(s):

Diethylenetriamine NOAEL (Gasterosteus aculeatus, 28 d): > 10 mg/l experimental result

Ethylene diamine NOAEL (Gasterosteus aculeatus, 28 d): > 10 mg/l experimental result

Acetic acid NOAEL (Oncorhynchus mykiss, 21 d): 34.3 mg/l experimental result

2-Butoxyethanol (Glycol

ether)

NOAEL (Danio rerio, 21 d): > 100 mg/l experimental result

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

### Persistence and Degradability

**Biodegradation** 

**Product:** No data available.

**BOD/COD Ratio** 

**Product:** No data available.

#### **Bioaccumulative Potential**

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

### Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

Specified substance(s):

Tetraethylene pentamine Log Kow: 1.503

Ethylene diamine Log Kow: -2.04

Acetic acid Log Kow: -0.17

2-Butoxyethanol (Glycol

ether)

Log Kow: 0.83



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Mobility in Soil: No data available.

Other Adverse Effects: No data available.

### 13. Disposal considerations

**Disposal instructions:** Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Contaminated Packaging: No data available.

### 14. Transport information

TDG:

Not Regulated

CFR / DOT:

Not Regulated

IMDG:

Not Regulated

### 15. Regulatory information

### **US Federal Regulations**

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

### **CERCLA Hazardous Substance List (40 CFR 302.4):**

<u>Chemical Identity</u> <u>Reportable quantity</u>

1-Methoxy-2-Propanol 100 lbs. Ethylene diamine 5000 lbs. Acetic acid 5000 lbs.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

### **Hazard categories**

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard



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### **SARA 302 Extremely Hazardous Substance**

**Reportable** 

<u>Chemical Identity</u> <u>quantity</u> <u>Threshold Planning Quantity</u>

Ethylene diamine 5000 lbs. 10000 lbs.

### **SARA 304 Emergency Release Notification**

**Chemical Identity** Reportable quantity

1-Methoxy-2-Propanol 100 lbs. Ethylene diamine 5000 lbs. Acetic acid 5000 lbs.

2-Butoxyethanol (Glycol

ether)

#### SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Ethylene diamine	500lbs
Petaethylene hexamine	500 lbs
1-Methoxy-2-Propanol	500 lbs
Diethylenetriamine	500 lbs
Tetraethylene pentamine	500 lbs
Acetic acid	500 lbs
2-Butoxyethanol (Glycol	500 lbs
ether)	

ether)

### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Chemical Identity Reportable quantity

Ethylene diamine 20000 lbs

### **US State Regulations**

# **US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

### US. New Jersey Worker and Community Right-to-Know Act

## **Chemical Identity**

1-Methoxy-2-Propanol

Diethylenetriamine

Tetraethylene pentamine

### US. Massachusetts RTK - Substance List

# **Chemical Identity**

1-Methoxy-2-Propanol

Diethylenetriamine

Tetraethylene pentamine

Ethylene diamine



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### **US. Pennsylvania RTK - Hazardous Substances**

#### **Chemical Identity**

1-Methoxy-2-Propanol Diethylenetriamine Tetraethylene pentamine

#### **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

### Other Regulations:

When appropriately mixed with the other part, product has a VOC less water and exempt solvent of:

230 g/l

**Inventory Status:** 

Australia AICS: All components in this product are listed on or

exempt from the Inventory.

Canada DSL Inventory List:

All components in this product are listed on or

exempt from the Inventory.

EINECS, ELINCS or NLP: All components in this product are listed on or

exempt from the Inventory.

Japan (ENCS) List:

All components in this product are listed on or

exempt from the Inventory.

China Inv. Existing Chemical Substances:

All components in this product are listed on or

exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI): All components in this product are listed on or

exempt from the Inventory.

Canada NDSL Inventory: One or more components in this product are

not listed on or exempt from the Inventory.

Philippines PICCS: All components in this product are listed on or

exempt from the Inventory.

US TSCA Inventory:

All components in this product are listed on or

exempt from the Inventory.

New Zealand Inventory of Chemicals:

All components in this product are listed on or

exempt from the Inventory.

Japan ISHL Listing: One or more components in this product are

not listed on or exempt from the Inventory.



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Japan Pharmacopoeia Listing:

One or more components in this product are not listed on or exempt from the Inventory.

# 16.Other information, including date of preparation or last revision

**Revision Date:** 08/05/2015

Version #: 1.0

**Further Information:** No data available.

Disclaimer: For Industrial Use Only. Keep out of Reach of Children. The hazard

> information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including

the safe use of the product under every foreseeable condition.



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### 1. Identification

Product identifier: TAMMS AG-400 BASECOAT 4:1 PART B

Product Code: 254MP 05

Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

EUCLID CHEMICAL COMPANY 19218 REDWOOD ROAD CLEVELAND OH 44110

US

Contact person:EH&S DepartmentTelephone:216-531-9222

**Emergency telephone number:** 1-800-424-9300 (US); 1-613-996-6666 (Canada)

# 2. Hazard(s) identification

### **Hazard Classification**

### **Health Hazards**

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2B
Skin sensitizer Category 1

Acute toxicity, oral 0 %
Acute toxicity, dermal 16 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust or mist 100 %

Acute hazards to the aquatic 100 %

environment

Chronic hazards to the aquatic 100 %

environment

### **Label Elements**

### **Hazard Symbol:**





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Signal Word: Warning

**Hazard Statement:** May cause an allergic skin reaction.

Causes skin and eye irritation.

Precautionary Statement

**Prevention:** Wash thoroughly after handling. Wear protective gloves/protective

clothing/eye protection/face protection. Avoid breathing

dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be

allowed out of the workplace.

**Response:** If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment

(see this label). Wash contaminated clothing before reuse.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Bisphenol A Polyglycidyl Ether Resin	25068-38-6	60 - 100%
Alkyl glycidyl ether	68609-97-2	15 - 40%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

Ingestion: Call a POISON CENTER/doctor/.../if you feel unwell. Rinse mouth.

**Inhalation:** Move to fresh air.

**Skin Contact:** Get medical attention. Destroy or thoroughly clean contaminated shoes.

Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction

develops, get medical attention.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed



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**Symptoms:** Prolonged or repeated contact with skin may cause redness, itching,

irritation and eczema/chapping.

Indication of immediate medical attention and special treatment needed

**Treatment:** Symptoms may be delayed.

5. Fire-fighting measures

**General Fire Hazards:** No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning

up:

Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for

disposal according to local regulations.

Notification Procedures: In the event of a spill or accidental release, notify relevant authorities in

accordance with all applicable regulations.

**Environmental Precautions:** Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so.

# 7. Handling and storage

Precautions for safe handling: Avoid contact with eyes. Wash hands thoroughly after handling. Avoid

contact with skin. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment.

Observe good industrial hygiene practices.



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Conditions for safe storage, including any

incompatibilities:

Store away from incompatible materials. Store in original tightly closed

container.

### 8. Exposure controls/personal protection

#### **Control Parameters**

### **Occupational Exposure Limits**

None of the components have assigned exposure limits.

Appropriate Engineering

Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

### Individual protection measures, such as personal protective equipment

General information: Provide easy access to water supply and eye wash facilities. Good general

ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process

enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable

level.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin Protection** 

**Hand Protection:** Use suitable protective gloves if risk of skin contact.

Other: Wear suitable protective clothing. Wear chemical-resistant gloves, footwear,

and protective clothing appropriate for the risk of exposure. Contact health

and safety professional or manufacturer for specific information.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

**Hygiene measures:** Observe good industrial hygiene practices. Wash contaminated clothing

before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should

not be allowed out of the workplace.

### 9. Physical and chemical properties

#### **Appearance**

Physical state:liquidForm:liquidColor:Pale yellow

Odor: Mild

Odor threshold:

pH:

No data available.

No data available.

Melting point/freezing point:

No data available.

No data available.

100 °C 212 °F



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Flash Point: > 93 °C > 200 °F(Setaflash Closed Cup)

**Evaporation rate:** Slower than Ether

Flammability (solid, gas): No Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

Vapor density: Vapors are heavier than air and may travel along the floor and

in the bottom of containers.

Relative density: 1.1

Solubility(ies)

Solubility in water:
Solubility (other):
No data available.
Partition coefficient (n-octanol/water):
No data available.
No data available.
No data available.
Viscosity:
No data available.
No data available.

### 10. Stability and reactivity

**Reactivity:** No data available.

**Chemical Stability:** Material is stable under normal conditions.

Possibility of Hazardous

Reactions:

**Products:** 

No data available.

**Conditions to Avoid:** Avoid heat or contamination.

**Incompatible Materials:** No data available.

**Hazardous Decomposition** 

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

### 11. Toxicological information

### Information on likely routes of exposure

**Ingestion:** May be ingested by accident. Ingestion may cause irritation and malaise.

**In high concentrations**, vapors, fumes or mists may irritate nose, throat and

mucus membranes.

**Skin Contact:** May be harmful in contact with skin. Causes skin irritation. May cause an

allergic skin reaction.

**Eye contact:** Causes eye irritation.



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### Information on toxicological effects

### Acute toxicity (list all possible routes of exposure)

Oral

**Product:** ATEmix: 12,500 mg/kg

**Dermal** 

**Product:** ATEmix: 3,450 mg/kg

Inhalation

**Product:** No data available.

Specified substance(s):

Bisphenol A Polyglycidyl

Ether Resin

LC 0 (Rat, 5 h): > 0 ppm

Alkyl glycidyl ether LC 0 (Rat, 7 h): 0.15 mg/l

Repeated dose toxicity

**Product:** No data available.

**Skin Corrosion/Irritation** 

**Product:** No data available.

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

Bisphenol A in vivo (Rabbit, 24 hrs): Slightly irritating

Polyglycidyl Ether

Resin

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:** 

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified



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### **Germ Cell Mutagenicity**

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure** 

Product: No data available.

**Aspiration Hazard** 

**Product:** No data available.

Other effects: No data available.

# 12. Ecological information

### **Ecotoxicity:**

### Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

# Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

### **Persistence and Degradability**



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**Biodegradation** 

**Product:** No data available.

**BOD/COD Ratio** 

**Product:** No data available.

**Bioaccumulative Potential** 

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

13. Disposal considerations

**Disposal instructions:** Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Contaminated Packaging: No data available.

# 14. Transport information

TDG:

Not Regulated

CFR / DOT:

Not Regulated

IMDG:

Not Regulated

# 15. Regulatory information

### **US Federal Regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

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#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

### **CERCLA Hazardous Substance List (40 CFR 302.4):**

None present or none present in regulated quantities.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

### **Hazard categories**

Immediate (Acute) Health Hazards

### **SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

#### **SARA 304 Emergency Release Notification**

None present or none present in regulated quantities.

#### SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

Bisphenol A Polyglycidyl 500 lbs

Ether Resin

Alkyl glycidyl ether 500 lbs

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

### **US State Regulations**

### **US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

### US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

#### **US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

#### US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

### **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

### Other Regulations:

When appropriately mixed with the other part, product has a VOC less water and exempt solvent of:

230 g/l



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**Inventory Status:** 

Australia AICS: All components in this product are listed on or

exempt from the Inventory.

Canada DSL Inventory List:

All components in this product are listed on or

exempt from the Inventory.

EINECS, ELINCS or NLP: All components in this product are listed on or

exempt from the Inventory.

Japan (ENCS) List:

One or more components in this product are

not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances:

All components in this product are listed on or

exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI):

All components in this product are listed on or

exempt from the Inventory.

Canada NDSL Inventory: One or more components in this product are

not listed on or exempt from the Inventory.

Philippines PICCS: All components in this product are listed on or

exempt from the Inventory.

US TSCA Inventory:

All components in this product are listed on or

exempt from the Inventory.

New Zealand Inventory of Chemicals:

All components in this product are listed on or

exempt from the Inventory.

Japan ISHL Listing: One or more components in this product are

not listed on or exempt from the Inventory.

Japan Pharmacopoeia Listing:

One or more components in this product are

not listed on or exempt from the Inventory.

## 16.Other information, including date of preparation or last revision

**Revision Date:** 08/05/2015

Version #: 1.0

Further Information: No data available.



Revision Date: 08/05/2015

Disclaimer:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.