

Revision Date: 08/28/2023

This is a kit that contains the following components:

DURAL EPOXY PRIMER PT A

DURAL EPOXY PRIMER PT B



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# **SAFETY DATA SHEET**

# 1. Identification

Product identifier: DURAL EPOXY PRIMER PT A

Product Code: TD2358104

Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Euclid Admixture Canada Inc.

2835 Grand-Allee

Saint Hubert QC J4T 2R4

CA

**Contact person:** EH&S Department **Telephone:** (450)465-2233

**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 2A
Skin sensitizer Category 1

# **Unknown toxicity - Health**

Acute toxicity, oral 42.36 %
Acute toxicity, dermal 42.65 %
Acute toxicity, inhalation, vapor 57.72 %
Acute toxicity, inhalation, dust 57.42 %

or mist

#### **Environmental Hazards**

Acute hazards to the aquatic Category 2

environment

Chronic hazards to the aquatic Category 2

environment

#### **Unknown toxicity - Environment**

Acute hazards to the aquatic 57.72 %

environment

Chronic hazards to the aquatic 57.72 %

environment



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#### **Label Elements**

# **Hazard Symbol:**



Signal Word: Warning

Hazard Statement: Causes skin irritation.

Causes serious eye irritation. May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

Precautionary Statements

**Prevention:** Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after

handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/

protective clothing/ eye protection/ face protection.

**Response:** Wash contaminated clothing before reuse. If skin irritation or rash occurs:

Get medical advice/attention. Take off contaminated clothing. If eye irritation

persists: Get medical advice/attention. Collect spillage.

**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.

Hazard(s) not otherwise classified (HNOC):

None.

### 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Bisphenol A Polyglycidyl Ether Resin	25068-38-6	25 - <50%
Aliphatic glycidyl ether	2461-15-6	10 - <20%

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

# 4. First-aid measures

#### **Description of necessary first-aid measures**

**Inhalation:** Move to fresh air.



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**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.

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

**Personal Protection for First-**

aid Responders:

Self-contained breathing apparatus and full protective clothing must

be worn in case of fire.

Most important symptoms/effects, acute and delayed

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

irritation and eczema/chapping.

**Hazards:** No data available.

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 fire-fighters

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.



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Accidental release measures: In the event of a spill or accidental release, notify relevant authorities in

accordance with all applicable regulations.

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.

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

spillage if safe to do so. Avoid release to the environment.

# 7. Handling and storage

# Handling

Technical measures (e.g. Local and general ventilation):

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.

Safe handling advice: Provide adequate ventilation. Wear appropriate personal protective

equipment. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Avoid contact with eyes. Avoid contact with skin.

Avoid contact with eyes, skin, and clothing.

Contact avoidance measures: No data available.

**Hygiene measures:** Observe good industrial hygiene practices. Avoid contact with eyes. 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.

**Storage** 

Safe storage conditions: Store away from incompatible materials. Store in original tightly closed

container.

Safe packaging materials: No data available.

#### 8. Exposure controls/personal protection

# **Control Parameters**

#### **Occupational Exposure Limits**

None of the components have assigned exposure limits. None of the components have assigned exposure limits.

Chemical name	Туре	Exposure Limit Values	Source
Methanol	TWA	200 ppm	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (07 2007)
Methanol	TWA	200 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	STEL	250 ppm	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (07 2007)



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	STEL	250 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Methanol	STEL	250 ppm	328 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
	TWA	200 ppm	262 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Allyl glycidyl ether	TWA	1 ppm		Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (07 2007)
Allyl glycidyl ether	TWA	1 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Allyl glycidyl ether	TWA	1 ppm		Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (03 2020)

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

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

**Skin Protection** 

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

**Skin and Body Protection:** 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. Avoid contact with eyes. 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: liquid
Form: liquid
Color: Colorless
Odor: Mild

Odor threshold:No data available.pH:No data available.Melting point/freezing point:No data available.



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**Initial boiling point and boiling range:**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:

No data available.

No data available.

No data available.

No data available.

Vapor pressure: < 10 mmHg (20 °C 68 °F)

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

in the bottom of containers.

Relative density: 1.13

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:

No data available.

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

**Incompatible Materials:** No data available.

**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

**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 serious eye irritation.

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



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#### Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

**Skin Contact:** No data available.

Eye contact: No data available.

Ingestion: No data available.

# Information on toxicological effects

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

Oral

**Product:** ATEmix: 2,726.94 mg/kg

**Dermal** 

**Product:** ATEmix: 2,000.16 mg/kg

Inhalation **Product:** 

Specified substance(s):

Bisphenol A Polyglycidyl LC 50: > 20 mg/l Ether Resin LC 50: > 5 mg/l

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Specified substance(s):

Bisphenol A

Polyglycidyl Ether

Resin

in vivo (Rabbit): Moderately irritating, 24 h

Aliphatic glycidyl ether in vivo (Rabbit): Category 2, 24 - 72 h

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

Aliphatic glycidyl ether Rabbit, 24 - 72 h: Not Classified

Respiratory or Skin Sensitization

**Product:** No data available.



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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 1910.1001-1053), as amended:

No carcinogenic components identified

#### **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):

Bisphenol A Polyglycidyl LC 50 (Oncorhynchus mykiss, 96 h): 1.5 mg/l Experimental result, Key study

9/31



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Ether Resin

Aliphatic glycidyl ether LC 50 (Oncorhynchus mykiss, 96 h): > 5,000 mg/l Read-across from

supporting substance (structural analogue or surrogate), Key study

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

Bisphenol A Polyglycidyl

Ether Resin

EC 50 (Daphnia magna, 48 h): 1.1 mg/l experimental result Experimental

result, Key study

Aliphatic glycidyl ether EC 50 (Daphnia magna, 48 h): 7.2 mg/l read-across from supporting

substance (structural analogue or surrogate) Read-across from supporting

substance (structural analogue or surrogate), Key study

Chronic hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

**Aquatic Invertebrates** 

Ether Resin

**Product:** No data available.

Specified substance(s):

Bisphenol A Polyglycidyl

NOAEL (Daphnia magna): 0.3 mg/l experimental result Experimental result,

Key study

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Persistence and Degradability

Biodegradation

**Product:** No data available.

Specified substance(s):

Bisphenol A Polyglycidyl

Ether Resin

82 % Detected in water. Experimental result, Key study

Aliphatic glycidyl ether > 0 % (28 d) Detected in water. Experimental result, Key study

BOD/COD Ratio

**Product:** No data available.

**Bioaccumulative potential** 

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Specified substance(s):

Bisphenol A Polyglycidyl

Ether Resin

Bioconcentration Factor (BCF): 31 Aquatic sediment QSAR, Key study



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

**Product:** No data available.

Specified substance(s):

Bisphenol A Polyglycidyl

Ether Resin

Log Kow: 2.64 - 3.78 25 °C Yes Experimental result, Key study

**Mobility in soil:** No data available.

Other adverse effects: Toxic to aquatic life with long lasting effects.

#### 13. Disposal considerations

**Disposal methods:** 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

#### **Further Information:**

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

# 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. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.



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# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended

None present or none present in regulated quantities.

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

Chemical Identity Reportable quantity

Methanol 5000 lbs.

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

#### **Hazard categories**

Immediate (Acute) Health Hazards Skin Corrosion or Irritation Serious eye damage or eye irritation Respiratory or Skin Sensitization

# US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

Not Regulated.

# US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

**Chemical Identity** % by weight

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

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.

# **US State Regulations**

# **US. California Proposition 65**



#### WARNING

Reproductive Harm - www.P65Warnings.ca.gov

# International regulations

# **Montreal protocol**

Not applicable

#### Stockholm convention

Not applicable

# **Rotterdam convention**

Not applicable

#### **Kyoto protocol**

Not applicable

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



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97 g/l

Regulatory VOC (less water and : 0 g/l exempt solvent)

VOC Method 310 : 0.00 %



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**Inventory Status:** 

EC Inventory: One or more components in this

product are not 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.

New Zealand Inventory of Chemicals: All components in this product are

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.

Australia AICS: One or more components in this

product are not listed on or exempt

from the Inventory.

Canada DSL Inventory List:

One or more components in this

product are not listed on or exempt

from the Inventory.

Ontario Inventory:

One or more components in this

product are not listed on or exempt

from the Inventory.

China Inv. Existing Chemical

Substances:

One or more components in this product are not 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.

Japan ISHL Listing: One or more components in this

product are not listed on or exempt

from the Inventory.

Korea Existing Chemicals Inv. (KECI): One or more components in this

product are not listed on or exempt

from the Inventory.

Mexico INSQ: One or more components in this

product are not listed on or exempt

from the Inventory.

Philippines PICCS: One or more components in this



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product are not listed on or exempt

from the Inventory.

Taiwan Chemical Substance Inventory: One or more components in this

product are not listed on or exempt

from the Inventory.

US TSCA Inventory: 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

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Version #: 4.0

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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# SAFETY DATA SHEET

# 1. Identification

Product identifier: DURAL EPOXY PRIMER PT B

Product Code: TD2358104

Recommended use and restriction on use

Recommended use: Curative Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Euclid Admixture Canada Inc.

2835 Grand-Allee

Saint Hubert QC J4T 2R4

CA

**Contact person:** EH&S Department **Telephone:** (450)465-2233

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

# 2. Hazard(s) identification

#### **Hazard Classification**

#### **Health Hazards**

Acute toxicity (Inhalation - vapor) Category 4
Acute toxicity (Inhalation - dust and Category 4

mist)

Skin Corrosion/Irritation Category 1
Serious Eye Damage/Eye Irritation Category 1
Skin sensitizer Category 1
Carcinogenicity Category 2
Toxic to reproduction Category 2
Specific Target Organ Toxicity - Category 1

Repeated Exposure

# **Unknown toxicity - Health**

Acute toxicity, oral 2.37 %
Acute toxicity, dermal 33.22 %
Acute toxicity, inhalation, vapor 73.83 %
Acute toxicity, inhalation, dust 83.69 %

or mist

#### **Environmental Hazards**

Acute hazards to the aquatic Category 1

environment



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Chronic hazards to the aquatic

Category 1

environment

# **Unknown toxicity - Environment**

Acute hazards to the aquatic 40.02 %

environment

Chronic hazards to the aquatic 30.24 %

environment

# **Label Elements**

# **Hazard Symbol:**



Signal Word: Danger

**Hazard Statement:** Harmful if inhaled.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction. Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life with long lasting effects.

Precautionary Statements

**Prevention:** Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Do not breathe

dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/

face protection. Use personal protective equipment as required.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or

hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately 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 exposed or concerned: Get medical advice/attention.

Collect spillage.

Storage: Store locked up.



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**Disposal:** Dispose of contents/ container to an approved facility in accordance with

local, regional, national and international regulations.

Hazard(s) not otherwise classified (HNOC):

None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
4-Nonylphenol	84852-15-3	25 - <50%
Benzyl alcohol	100-51-6	10 - <20%
Proprietary mixed cycloaliphatic amines in SAP 12837 (Ancamide 2353)	Trade Secret	10 - <20%
Heavy aromatic naphtha	64742-94-5	5 - <10%
Proprietary tertiary amine in SAP 12837 (Ancamide 2353)	Trade Secret	1 - <5%
Triethylenetetramine	112-24-3	1 - <3%
Tris(dimethylaminomethyl)phenol	90-72-2	1 - <5%

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

## 4. First-aid measures

Description of necessary first-aid measures

**Inhalation:** Move to fresh air.

**Skin Contact:** 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. Call a physician or poison control

center immediately.

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

Personal Protection for First-

Self-contained breathing apparatus and full protective clothing must

**aid Responders:** be worn in case of fire.

Most important symptoms/effects, acute and delayed

**Symptoms:** Extreme irritation of eyes and mucous membranes, including burning and

tearing.

**Hazards:** No data available.

Indication of immediate medical attention and special treatment needed

**Treatment:** Symptoms may be delayed.



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# 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 fire-fighters

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.

Accidental release measures:

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

accordance with all applicable regulations.

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.

**Environmental Precautions:** 

Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so. Avoid release to the environment.

ventilation or local exhaust ventilation may be required.

# 7. Handling and storage

Safe handling advice:

Handling

Technical measures (e.g. Local and general ventilation):

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical

Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Do not get in eyes. Avoid

contact with eyes, skin, and clothing.



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Contact avoidance measures: No data available.

Hygiene measures: Observe good industrial hygiene practices. Wash hands before breaks and

immediately after handling the product. Do not get in eyes. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Contaminated work clothing should not be allowed

out of the workplace. Avoid contact with skin.

Storage

Safe storage conditions: Store locked up.

Safe packaging materials: No data available.

# 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure Limit Values	Source
Heavy aromatic naphtha - Non-aerosol as total hydrocarbon vapor	TWA	200 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2014)
	TWA	200 mg/m3	US. ACGIH Threshold Limit Values, as amended (01 2021)

Chemical name	Туре	Exposure Limit Values	Source
Heavy aromatic naphtha - Non-aerosol as total hydrocarbon vapor	TWA	200 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Heavy aromatic naphtha	TWA	525 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Heavy aromatic naphtha - Non-aerosol as total hydrocarbon vapor	TWA	200 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (01 2020)
Heavy aromatic naphtha - Non-aerosol as total hydrocarbon vapor	TWA	200 mg/m3	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (06 2022)
Heavy aromatic naphtha	TWA	200 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (04 2022)
Triethylenetetramine	TWA	0.5 ppm 3 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)



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Chemical name	Туре	Exposure Limit Values	Source
Heavy aromatic naphtha - Non-aerosol as total hydrocarbon vapor	TWA	200 mg/m	3 Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Heavy aromatic naphtha	TWA	525 mg/m	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Heavy aromatic naphtha - Non-aerosol as total hydrocarbon vapor	TWA	200 mg/m	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (01 2020)
Heavy aromatic naphtha - Non-aerosol as total hydrocarbon vapor	TWA	200 mg/m	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (06 2022)
Heavy aromatic naphtha	TWA	200 mg/m	3 Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (04 2022)
Triethylenetetramine	TWA	0.5 ppm 3 mg/m	3 Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)

# 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

**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:** Additional Information: Use suitable protective gloves if risk of skin contact.

**Skin and Body Protection:** 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 hands before breaks and

immediately after handling the product. Do not get in eyes. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Contaminated work clothing should not be allowed

out of the workplace. Avoid contact with skin.

# 9. Physical and chemical properties

#### **Appearance**

Physical state: liquid
Form: liquid
Color: Amber
Odor: Mild pungent



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Odor threshold:

pH:

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:

No data available.

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

in the bottom of containers.

Relative density: 0.992

Solubility(ies)

Solubility in water:

Solubility (other):

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Practically Insoluble

No data available.

No data available.

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:

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

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

mucus membranes.

**Skin Contact:** May cause an allergic skin reaction.

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



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

Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** ATEmix: 2,335.05 mg/kg

**Dermal** 

**Product:** ATEmix: 8,191.27 mg/kg

Inhalation

**Product:** ATEmix: 17.65 mg/l

ATEmix: 4.18 mg/l

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Specified substance(s):

4-Nonylphenol in vivo (Rabbit): Irritating, 1 - 8 d

Benzyl alcohol in vivo (Rabbit): Slightly irritating

Heavy aromatic

naphtha

in vivo (Rabbit): Irritating, 24 - 72 h

Tris(dimethylaminomet

hyl)phenol

in vivo (Rabbit): Corrosive

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

4-Nonylphenol Rabbit, 24 - 72 h: Corrosive



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Heavy aromatic

Rabbit, 24 - 72 h: Not irritant

naphtha

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** Suspected of causing cancer.

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 1910.1001-1053), as amended:

No carcinogenic components identified

**Germ Cell Mutagenicity** 

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** Suspected of damaging fertility or the unborn child.

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:



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**Fish** 

**Product:** No data available.

Specified substance(s):

4-Nonylphenol EC 50 (Pimephales promelas, 96 h): 96 µg/l Experimental result, Key study

Benzyl alcohol LC 50 (Pimephales promelas, 96 h): 460 mg/l Experimental result, Key study

Heavy aromatic naphtha LL 100 (96 h): 34 mg/l Experimental result, Supporting study

LL 50 (Oncorhynchus mykiss, 48 h): 100 - 1,000 mg/l Experimental result,

Supporting study

LL 50 (48 h): 16 mg/l Experimental result, Supporting study LC 50 (96 h): 8.41 mg/l Experimental result, Key study

LL 0 (Oncorhynchus mykiss, 96 h): 1.4 mg/l Experimental result, Supporting

study

Tris(dimethylaminomethyl

)phenol

LC 50 (Cyprinus carpio, 96 h): 175 mg/l Experimental result, Weight of

Evidence study

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

4-Nonylphenol EC 50 (Daphnia magna, 48 h): 84.4 µg/l experimental result Experimental

result, Key study

Benzyl alcohol EC 50 (Daphnia magna, 48 h): 230 mg/l experimental result Experimental

result, Key study

result, Key study

Triethylenetetramine LC 50 (Water flea (Daphnia magna), 48 h): 33.9 mg/l Intoxication

# Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):

4-Nonylphenol NOAEL (Oncorhynchus mykiss): 0.006 mg/l experimental result

Experimental result, Key study

Heavy aromatic naphtha NOAEL (Oncorhynchus mykiss): 0.098 mg/l QSAR QSAR, Key study

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

4-Nonylphenol NOAEL (Daphnia magna): 0.024 mg/l experimental result Experimental

result, Key study

Benzyl alcohol NOAEL (Daphnia magna): 51 mg/l experimental result Experimental result,

Key study



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Heavy aromatic naphtha LOAEL (Daphnia magna): 0.48 mg/l experimental result Experimental result,

Key study

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Specified substance(s):

ErC 50 (Algae, 96 h): 1.4 mg/l Experimental result, Key study ErC 50 (Algae, 96 h): 1.8 mg/l Experimental result, Key study ErC 50 (Algae, 72 h): 2 mg/l Experimental result, Key study ErC 50 (Algae, 72 h): 1.4 mg/l Experimental result, Key study

Persistence and Degradability

**Biodegradation** 

**Product:** No data available.

Specified substance(s):

4-Nonylphenol 48.2 % (35 d) Detected in water. Experimental result, Key study

Benzyl alcohol 97 % (21 d) Detected in water. Experimental result, Key study

Heavy aromatic naphtha 29 % Detected in water. Experimental result, Key study

Tris(dimethylaminomethyl

)phenol

4 % (28 d) Detected in water. Experimental result, Key study

**BOD/COD Ratio** 

**Product:** No data available.

**Bioaccumulative potential** 

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Specified substance(s):

4-Nonylphenol Pimephales promelas, Bioconcentration Factor (BCF): 740 Aquatic sediment

Experimental result, Key study

Heavy aromatic naphtha Pimephales promelas, Bioconcentration Factor (BCF): 99 - 5,780 Aquatic

sediment QSAR, Key study

Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

Specified substance(s):

Benzyl alcohol Log Kow: 1.10

Heavy aromatic naphtha Log Kow: 2.8 - 6.5 23 °C Yes Experimental result, Key study

Log Kow: 3.4 - 5 25 °C Yes Experimental result, Key study Log Kow: > 2.4 - < 5.2 23 °C Experimental result, Key study Log Kow: > 3 - < 6.5 23 °C Yes Experimental result, Key study Log Kow: 3.19 - 3.25 21 °C Experimental result, Key study



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**Mobility in soil:** No data available.

Other adverse effects: Very toxic to aquatic life with long lasting effects.

#### 13. Disposal considerations

**Disposal methods:** 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:

UN1760, CORROSIVE LIQUID, N.O.S. (Alkaline Amine), 8, PG III

#### CFR / DOT:

UN1760, Corrosive liquids, n.o.s. (Alkaline Amine), 8, PG III

#### IMDG:

UN1760, CORROSIVE LIQUID, N.O.S. (Alkaline Amine, Nonylphenol), 8, PG III, MARINE POLLUTANT

#### **Further Information:**

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

# 15. Regulatory information

#### **US Federal Regulations**

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

**Chemical Identity** Reportable quantity

4-Nonylphenol De minimis concentration: TSCA 5(a)(2)% One-Time Export Notification

only.

# US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended

None present or none present in regulated quantities.

# CERCLA Hazardous Substance List (40 CFR 302.4):

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

Heavy aromatic naphtha 100 lbs.



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

#### **Hazard categories**

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard Acute toxicity (any route or exposure) Skin Corrosion or Irritation

Serious eye damage or eye irritation Respiratory or Skin Sensitization

Carcinogenicity
Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

# US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

Not Regulated.

# US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

<u>Chemical Identity</u> <u>% by weight</u> 4-Nonylphenol 1.0%

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

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.

#### **US State Regulations**

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

No ingredient requiring a warning under CA Prop 65.

#### International regulations

#### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

# **Rotterdam convention**

Not applicable

#### **Kyoto protocol**

Not applicable

**VOC:** When appropriately mixed with the other part, product has a VOC less water and exempt solvent of: 97 g/l

Regulatory VOC (less water and : 687 g/l

exempt solvent)



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VOC Method 310 : 55.81 %



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**Inventory Status:** 

EC Inventory: One or more components in this

product are not 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:

One or more components in this product are not listed on or exempt

from the Inventory.

Korea Existing Chemicals Inv. (KECI): One or more components in this

product are not 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: One or more components in this

product are not listed on or exempt

from the Inventory.

New Zealand Inventory of Chemicals: One or more components in this

product are not 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.

Australia Industrial Chem. Act (AIIC): One or more components in this

product are not listed on or exempt

from the Inventory.

Canada DSL Inventory List: All components in this product are

listed on or exempt from the

Inventory.

Ontario Inventory: One or more components in this

product are not listed on or exempt

from the Inventory.

Mexico INSQ:

One or more components in this



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product are not listed on or exempt

from the Inventory.

Taiwan Chemical Substance Inventory: One or more components in this

product are not listed on or exempt

from the Inventory.

US TSCA Inventory: All components in this product are

listed on or exempt from the

Inventory.

Switzerland New Subs Notified/Registered:

One or more components in this product are not listed on or exempt

from the Inventory.

Thailand DIW Existing Chemical Inv.

List:

One or more components in this product are not listed on or exempt

from the Inventory.

Vietnam National Chemical Inventory: 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:** 08/28/2023

Version #: 4.0

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.