

Revision Date: 02/08/2019

This is a kit that contains the following components: EUCOPOXY TUFCOAT DBS CLEAR 2:1 PART A EUCOPOXY TUFCOAT DBS CLEAR PART B 1GL



Revision Date: 02/08/2019

# SAFETY DATA SHEET

# 1. Identification

Product identifier: EUCOPOXY TUFCOAT DBS CLEAR 2:1 PART A

Product Code: 142CK 13

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 1
Skin sensitizer Category 1
Germ Cell Mutagenicity Category 1B
Carcinogenicity Category 1B
Toxic to reproduction Category 2

# **Unknown toxicity - Health**

Acute toxicity, oral 13.08 %
Acute toxicity, dermal 20.63 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust 100 %

or mist

## **Environmental Hazards**

Acute hazards to the aquatic Category 2

environment

Chronic hazards to the aquatic Category 2

environment

## **Unknown toxicity - Environment**



Revision Date: 02/08/2019

Acute hazards to the aquatic 13.2 %

environment

Chronic hazards to the aquatic 20.79 %

environment

**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 13.2 %

environment

Chronic hazards to the aquatic 20.79 %

environment

#### **Label Elements**

# **Hazard Symbol:**



Signal Word: Danger

Hazard Statement: Causes skin irritation.

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

May cause genetic defects.

May cause cancer.

Suspected of damaging fertility or the unborn child.

Toxic to aquatic life with long lasting effects.

Precautionary Statements

**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 should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use

personal protective equipment as required. Avoid release to the

environment.

**Response:** 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 on this label). Wash contaminated clothing before reuse.



Revision Date: 02/08/2019

Collect spillage.

Storage: Store locked up.

**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	50 - <100%
Neopentyl glycol diglycidyl ether	17557-23-2	5 - <10%
4-Nonylphenol	84852-15-3	5 - <10%
Petroleum naphtha, heavy alkylate	64741-65-7	0.1 - <1%

<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. Call a physician or poison control center

immediately.

#### Most important symptoms/effects, acute and delayed

**Symptoms:** No data available.

**Hazards:** No data available.

# Indication of immediate medical attention and special treatment needed

**Treatment:** No data available.

# 5. Fire-fighting measures



Revision Date: 02/08/2019

**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. Avoid release to the environment.

#### 7. Handling and storage

Precautions for safe handling: Provide adequate ventilation. Wear appropriate personal protective

equipment. Observe good industrial hygiene practices. Do not taste or swallow. 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 skin. Avoid contact with eyes, skin, and

clothing.

Conditions for safe storage,

including any incompatibilities:

Store locked up.



Revision Date: 02/08/2019

# 8. Exposure controls/personal protection

# **Control Parameters**

**Occupational Exposure Limits** 

•	Occupational Exposure Limits							
	Chemical Identity	Туре	Exposure Limit Values		Source			
	Petroleum naphtha, heavy alkylate	PEL	100 ppm	400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)			

None of the components have assigned exposure limits.

Chemical name	Туре	Exposure Lir	nit Values	Source
Petroleum naphtha, heavy alkylate	TWA		525 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Petroleum naphtha, heavy alkylate	TWA	400 ppm	1,590 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
1,2,4-Trimethylbenzene	TWA	25 ppm	123 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
1,2,4-Trimethylbenzene	TWA	25 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
1,2,4-Trimethylbenzene	TWA	25 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
1,2,4-Trimethylbenzene	TWA	25 ppm	123 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
1-Methoxy-2-propanol acetate	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 acetate	TWA	50 ppm	270 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Cumene	STEL	75 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	25 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Cumene	TWA	50 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Cumene	TWA	50 ppm	246 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Benzene	STEL	2.5 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	0.5 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Revision Date: 02/08/2019

Benzene	TWA	0.5 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
	STEL	2.5 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Benzene	TWA	1 ppm	3 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
	STEL	5 ppm	15.5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Toluene	TWA	20 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Toluene	TWA	20 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Toluene	TWA	50 ppm	188 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

# 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.

**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. Do not eat, drink or smoke

when using the product. Wash hands after handling. 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. Wash contaminated clothing before reuse. Avoid contact with skin. Contaminated work clothing should not be

allowed out of the workplace.

#### 9. Physical and chemical properties



Revision Date: 02/08/2019

**Appearance** 

Physical state: liquid
Form: liquid
Color: Milky white
Odor: Slight odor

Odor threshold:

pH:

No data available.

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.

Vapor pressure:

No data available.

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

in the bottom of containers.

Relative density: 1.13

Solubility(ies)

Solubility in water:
Solubility (other):

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Miscible with water.

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:** Amines. Epoxides. Avoid contact with acids. Bases, alkalies (organic).

**Hazardous Decomposition** 

**Products:** 

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.



Revision Date: 02/08/2019

# 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 damage.

**Ingestion:** 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: 14,347.55 mg/kg

**Dermal** 

**Product:** Not classified for acute toxicity based on available data.

Specified substance(s):

Bisphenol A Polyglycidyl LD 50 (Rat): > 2,000 mg/kg

Ether Resin

Inhalation

**Product:** Not classified for acute toxicity based on available data.

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Specified substance(s):



Revision Date: 02/08/2019

Bisphenol A Irritating.

Polyglycidyl Ether

Resin

in vivo (Rabbit): Slightly irritating Experimental result, Key study

4-Nonylphenol in vivo (Rabbit): Category 1B Experimental result, Weight of Evidence study

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

Bisphenol A Strongly irritating.

Polyglycidyl Ether

Resin

Rabbit, 24 hrs: Slightly irritating

4-Nonylphenol Rabbit, 24 - 72 hrs: Corrosive

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** May cause 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 1910.1001-1050):

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.



Revision Date: 02/08/2019

**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

Ether Resin

LC 50 (Oncorhynchus mykiss, 96 h): 2 mg/l Experimental result, Key study

4-Nonylphenol LC 50 (Fathead minnow (Pimephales promelas), 96 h): 0.13825 mg/l

Mortality

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

Bisphenol A Polyglycidyl

Ether Resin

EC 50 (Daphnia magna, 48 h): 1.8 mg/l Experimental result, Key study

#### Chronic hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

Specified substance(s):

4-Nonylphenol NOAEL (Oncorhynchus mykiss, 91 d): 0.006 mg/l Experimental result, Key

study

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

Bisphenol A Polyglycidyl Ether Resin

NOEC (Daphnia magna, 21 d): 0.3 mg/l Experimental result, Key study

Toxicity to Aquatic Plants

**Product:** No data available.

#### Persistence and Degradability



Revision Date: 02/08/2019

Biodegradation

**Product:** No data available.

**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

4-Nonylphenol Fathead minnow (Pimephales promelas), Bioconcentration Factor (BCF):

988 (Flow through)

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 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:



Revision Date: 02/08/2019

Not Regulated

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

Chemical Identity OSHA hazard(s)

Benzene Blood

respiratory tract irritation Central nervous system

Flammability Cancer Skin Aspiration Eye

# CERCLA Hazardous Substance List (40 CFR 302.4):

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

Cumene 5000 lbs.
Benzene 10 lbs.
Toluene 1000 lbs.

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

#### **Hazard categories**

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

Skin Corrosion or Irritation

Serious eye damage or eye irritation Respiratory or Skin Sensitization

Germ Cell Mutagenicity

Carcinogenicity
Reproductive toxicity

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

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

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

Cumene 5000 lbs.
Benzene 10 lbs.
Toluene 1000 lbs.



Revision Date: 02/08/2019

#### SARA 311/312 Hazardous Chemical

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

Bisphenol A Polyglycidyl 10000 lbs

Ether Resin

Neopentyl glycol diglycidyl 10000 lbs

ether

4-Nonylphenol 10000 lbs Petroleum naphtha, heavy 10000 lbs

alkylate

# SARA 313 (TRI Reporting)

#### **Chemical Identity**

4-Nonylphenol

# 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

Cancer and Reproductive Harm - www.P65Warnings.ca.gov

### 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**

#### **Chemical Identity**

4-Nonylphenol

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

#### **Chemical Identity**

4-Nonylphenol

# **US. Rhode Island RTK**

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

#### International regulations

#### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

# **Rotterdam convention**

Not applicable



Revision Date: 02/08/2019

# **Kyoto protocol**

Not applicable

**VOC:** When appropriately mixed with the other part, product has a VOC less water and exempt solvent of: 92 g/l

Regulatory VOC (less water and exempt solvent) : 34 g/l

VOC Method 310 3.02 %



Revision Date: 02/08/2019

**Inventory Status:** 

Australia AICS: One or more components in this product are

not listed on or exempt from the Inventory.

EINECS, ELINCS or NLP: 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.

US TSCA Inventory: All components in this product are 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.

Mexico INSQ:

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.

Taiwan Chemical Substance Inventory: 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.



Revision Date: 02/08/2019

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

**Revision Date:** 02/08/2019

**Version #:** 10.0

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.



Revision Date: 02/08/2019

# SAFETY DATA SHEET

# 1. Identification

Product identifier: EUCOPOXY TUFCOAT DBS CLEAR PART B 1GL

Product Code: 142CK 13

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)

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Skin sensitizer

Category 1

Category 1

Category 1

Category 1

Category 2

### **Unknown toxicity - Health**

Acute toxicity, oral 7.9 %
Acute toxicity, dermal 27.55 %
Acute toxicity, inhalation, vapor 85.51 %
Acute toxicity, inhalation, dust 85.51 %

or mist

# **Environmental Hazards**

Acute hazards to the aquatic Category 2 environment

# **Unknown toxicity - Environment**

Acute hazards to the aquatic 56.82 %

environment



Revision Date: 02/08/2019

Chronic hazards to the aquatic 93.1 %

environment

**Environmental Hazards** 

Acute hazards to the aquatic Category 2

environment

Acute hazards to the aquatic 56.82 %

environment

Chronic hazards to the aquatic 93.1 %

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 damaging fertility or the unborn child.

Toxic to aquatic life.

Precautionary Statements

**Prevention:** Use only outdoors or in a well-ventilated area. Do not breathe

dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective

equipment as required. Avoid release to the environment.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for

breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If skin irritation or rash occurs: Get medical

advice/attention. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Specific treatment (see on this

label). Wash contaminated clothing before reuse.

Storage: Store locked up.



Revision Date: 02/08/2019

**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 (%)*
Poly(oxypropylene) diamine	9046-10-0	20 - <50%
4-Nonylphenol	84852-15-3	10 - <20%
Benzyl alcohol	100-51-6	10 - <20%
4,4'-diaminodicyclohexyl methane	1761-71-3	5 - <10%
N Amino ethyl piperazine	140-31-8	1 - <5%
1,2,4-Trimethylbenzene	95-63-6	0.1 - <1%

<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:** Rinse mouth. Call a physician or poison control center immediately. Never

give liquid to an unconscious person. Do not induce vomiting without advice

from poison control center.

**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 physician or poison control center immediately. 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.

# Most important symptoms/effects, acute and delayed

**Symptoms:** No data available.

**Hazards:** No data available.

# Indication of immediate medical attention and special treatment needed

**Treatment:** No data available.

#### 5. Fire-fighting measures



Revision Date: 02/08/2019

**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. Avoid release to the environment.

#### 7. Handling and storage

Precautions for safe handling:

Do not taste or swallow. Wash hands thoroughly after handling. Do not get in eyes. 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, on skin, on clothing. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage,

including any incompatibilities:

Store locked up.



Revision Date: 02/08/2019

# 8. Exposure controls/personal protection

# **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure Lim	it Values	Source
1,2,4-Trimethylbenzene	REL	25 ppm	125 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA	25 ppm	125 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	25 ppm	125 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL		25 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011)
	ST ESL		140 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL		700 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL		125 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011)
	TWA PEL	25 ppm	125 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
	TWA	25 ppm		US. ACGIH Threshold Limit Values (2011)

None of the components have assigned exposure limits.

Chemical name	Туре	Exposure Limit Values		Source
1,2,4-Trimethylbenzene	TWA	25 ppm	123 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
1,2,4-Trimethylbenzene	TWA	25 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
1,2,4-Trimethylbenzene	TWA	25 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
1,2,4-Trimethylbenzene	TWA	25 ppm	123 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Cumene	STEL	75 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	25 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Revision Date: 02/08/2019

Cumene	TWA	50 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Cumene	TWA	50 ppm	246 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Stoddard solvent (Mineral Spirits)	STEL		580 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA		290 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Stoddard solvent (Mineral Spirits)	TWA	100 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Stoddard solvent (Mineral Spirits)	TWA	100 ppm	525 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
1-Methoxy-2-propanol acetate	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 acetate	TWA	50 ppm	270 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Phenyl glycidyl ether	TWA	0.1 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Phenyl glycidyl ether	TWA	0.1 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Phenyl glycidyl ether	TWA	0.1 ppm	0.61 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

# 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.

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

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



Revision Date: 02/08/2019

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. Do not eat, drink or smoke

when using the product. Wash hands after handling. Do not get in eyes. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Do not get this material in contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with

skin.

# 9. Physical and chemical properties

**Appearance** 

Physical state:liquidForm:liquidColor:Amber

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

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

in the bottom of containers.

Relative density: 0.99

Solubility(ies)

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



Revision Date: 02/08/2019

## 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 be harmful in contact with skin. Causes severe skin burns. May cause

an allergic skin reaction.

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

**Ingestion:** 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: 2,251.1 mg/kg

**Dermal** 

**Product:** ATEmix: 31,370.87 mg/kg

Inhalation

**Product:** ATEmix: 11 mg/l



Revision Date: 02/08/2019

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Specified substance(s):

Poly(oxypropylene)

diamine

(Rabbit): Corrosive Experimental result, Supporting study

4-Nonylphenol in vivo (Rabbit): Category 1B Experimental result, Weight of Evidence study

Benzyl alcohol in vivo (Rabbit): Not irritant Experimental result, Key study

4.4'-

diaminodicyclohexyl

methane

in vivo (Rabbit): Corrosive Experimental result, Key study

N Amino ethyl

piperazine

in vivo (Rabbit): Severe damage to the belly Experimental result, Key study

1,2,4-Trimethylbenzene

in vivo (Rabbit): Irritating Read-across from supporting substance (structural

analogue or surrogate), Key study

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

Poly(oxypropylene)

diamine

Rabbit, 24 hrs: Corrosive

4-Nonylphenol Rabbit, 24 - 72 hrs: Corrosive

4.4'diaminodicyclohexyl

methane

Rabbit, 1 hrs: Category 1

1,2,4-Trimethylbenzene Rabbit, 30 min: Not irritating

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** No data available.



Revision Date: 02/08/2019

## 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

### **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:

Fish

**Product:** No data available.

Specified substance(s):

4-Nonylphenol LC 50 (Fathead minnow (Pimephales promelas), 96 h): 0.13825 mg/l

Mortality

Benzyl alcohol LC 50 (Fathead minnow (Pimephales promelas), 96 h): 460 mg/l Mortality

27/33



Revision Date: 02/08/2019

4,4'-diaminodicyclohexyl

methane

LC 50 (Leuciscus idus, 96 h): 100 mg/l

N Amino ethyl piperazine

LC 50 (Fathead minnow (Pimephales promelas), 96 h): 1,950 - 2,460 mg/l

Mortality

LC 50 (Fathead minnow (Pimephales promelas), 96 h): 7.19 - 8.28 mg/l 1,2,4-Trimethylbenzene

Mortality

**Aquatic Invertebrates** 

Product:

No data available.

Specified substance(s):

Benzyl alcohol

EC 50 (Daphnia magna, 48 h): 230 mg/l Experimental result, Key study

4,4'-diaminodicyclohexyl

methane

EC 50 (Daphnia magna, 48 h): 7.64 mg/l

### Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):

4-Nonylphenol NOAEL (Oncorhynchus mykiss, 91 d): 0.006 mg/l Experimental result, Key

study

4,4'-diaminodicyclohexyl

methane

NOAEL (Various): > 1 mg/l Estimated by calculation, Supporting study

**Aquatic Invertebrates** 

Product:

No data available.

Specified substance(s):

4,4'-diaminodicyclohexyl

methane

NOEC (Daphnia magna): 4 mg/l

**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)**



Revision Date: 02/08/2019

**Product:** No data available.

Specified substance(s):

4-Nonylphenol Fathead minnow (Pimephales promelas), Bioconcentration Factor (BCF):

988 (Flow through)

Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

Specified substance(s):

Benzyl alcohol Log Kow: 1.10

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

Other adverse effects: Toxic to aquatic organisms.

#### 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:

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

#### CFR / DOT:

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

#### IMDG:

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

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

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

only.



Revision Date: 02/08/2019

#### 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):

Chemical Identity Reportable quantity

Cumene 5000 lbs.

#### 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
Reproductive toxicity

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

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

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

Cumene 5000 lbs.

#### SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u> <u>Threshold Planning Quantity</u> Poly(oxypropylene) 10000 lbs

diamine

4-Nonylphenol 10000 lbs Benzyl alcohol 10000 lbs 4,4'-diaminodicyclohexyl 10000 lbs

methane

N Amino ethyl piperazine 10000 lbs 1,2,4-Trimethylbenzene 10000 lbs

#### SARA 313 (TRI Reporting)

# **Chemical Identity**

4-Nonylphenol

#### 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

Cancer - www.P65Warnings.ca.gov



Revision Date: 02/08/2019

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

# **Chemical Identity**

N Amino ethyl piperazine

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

## **Chemical Identity**

4-Nonylphenol

Benzyl alcohol

N Amino ethyl piperazine

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

# **Chemical Identity**

4-Nonylphenol

Benzyl alcohol

N Amino ethyl piperazine

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

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

# 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:

92 g/l

Regulatory VOC (less water and

206 g/l

exempt solvent)

VOC Method 310 : 20.76 %



Revision Date: 02/08/2019

**Inventory Status:** 

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.

EINECS, ELINCS or NLP: 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.

US TSCA Inventory:

All components in this product are 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.

Mexico INSQ: 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.

Taiwan Chemical Substance Inventory: One or more components in this product are

not listed on or exempt from the Inventory.



Revision Date: 02/08/2019

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

**Revision Date:** 02/08/2019

**Version #:** 10.0

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.