

Revision Date: 11/17/2022

This is a kit that contains the following components: EUCO 452 MV PART A  $\,$ 

452 LV/MV PART B, EUCO 452 LV/MV PART B



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# SAFETY DATA SHEET

## 1. Identification

Product identifier: EUCO 452 MV PART A

Product Code: 002M 01

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 0.76 %
Acute toxicity, dermal 0.76 %
Acute toxicity, inhalation, vapor 99.77 %
Acute toxicity, inhalation, dust 99.77 %

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 1.1 %

environment

Chronic hazards to the aquatic 0.83 %

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:** 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. 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 eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of

soap and water. If skin irritation or rash occurs: Get medical

advice/attention. Specific treatment (see on this label). Wash contaminated

clothing before reuse. 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	50 - <100%
Epichlorohydrin polymer	25085-99-8	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

# Description of necessary first-aid measures



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**Inhalation:** Move to fresh air.

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

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

skin reaction develops, get medical attention.

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

to do, remove contact lenses. Get medical attention.

**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



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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.

## 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.

**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).



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**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: White
Odor: Mild

Odor threshold:No data available.pH:No data available.Melting point/freezing point:No data available.Initial boiling point and boiling range:> 260 °C > 500 °F

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 (%): No data available.

Flammability limit - lower (%): 1.40 %(V)

Explosive limit - upper:

Explosive limit - lower:

Vapor pressure:

No data available.

No data available.

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

in the bottom of containers.

Relative density: 1.17

Solubility(ies)

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



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## 10. Stability and reactivity

**Reactivity:** No data available.

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

Possibility of hazardous

reactions:

**Products:** 

No data available.

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

**Incompatible Materials:** No data available.

**Hazardous Decomposition** 

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

## 11. Toxicological information

Information on likely routes of exposure

**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.

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

Specified substance(s):

Bisphenol A Polyglycidyl LD 50

Ether Resin

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

**Dermal** 

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



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Specified substance(s):

Bisphenol A Polyglycidyl

Ether Resin

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

Inhalation

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

Specified substance(s):

Bisphenol A Polyglycidyl LC 50: > 20 mg/lEther 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

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

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

No carcinogenic components identified

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

No carcinogenic components identified



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# **Germ Cell Mutagenicity**

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

Specific Target Organ Toxicity - Single Exposure
Product:

No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product:
No data available.

**Aspiration Hazard** 

**Product:** No data available.

Other effects: No data available.

# 12. Ecological information

## **Ecotoxicity:**

## Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):

Bisphenol A Polyglycidyl

Ether Resin

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

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

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

Ether Resin result, Key study

## Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

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**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

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

Ether Resin 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

**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

20101 100011

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.



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## 14. Transport information

TDG:

Not Regulated

CFR / DOT:

Not Regulated

IMDG:

Not Regulated

## 15. Regulatory information

## **US Federal Regulations**

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

None present or none present in regulated quantities.

US. 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 1910.1001-1050), as amended

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

## **Hazard categories**

Immediate (Acute) Health Hazards 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

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.



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# **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:

0 g/l

Regulatory VOC (less water and : 0 g/l

exempt solvent)

VOC Method 310 : 0.00 %



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**Inventory Status:** 

Australia AICS: 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.

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.

Ontario Inventory: One or more components in this



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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.

Taiwan Chemical Substance 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 #: 2.1

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: 452 LV/MV PART B, EUCO 452 LV/MV PART B

Product Code: 002M 01

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

mist)

Skin Corrosion/Irritation Category 1B
Serious Eye Damage/Eye Irritation Category 1
Skin sensitizer Category 1
Toxic to reproduction Category 1B

## **Unknown toxicity - Health**

Acute toxicity, oral 29.03 %
Acute toxicity, dermal 36.44 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust 85.71 %

or mist

## **Environmental Hazards**

Acute hazards to the aquatic Category 2

environment

Chronic hazards to the aquatic Category 2

environment

## **Unknown toxicity - Environment**



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Acute hazards to the aquatic 35.39 %

environment

Chronic hazards to the aquatic 34.92 %

environment

#### **Label Elements**

## **Hazard Symbol:**



Signal Word: Danger

**Hazard Statement:** Harmful if swallowed or if inhaled.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May damage fertility. May damage the unborn child.

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. Call a POISON

CENTER or doctor/ physician if you feel unwell. 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.

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

local, regional, national and international regulations.



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Hazard(s) not otherwise classified (HNOC):

None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
4-tert-Butylphenol	98-54-4	25 - <50%
m-Xylenediamine	1477-55-0	10 - <20%
1,3-Cyclohexanedimethanamine	2579-20-6	10 - <20%
Diethylenetriamine	111-40-0	5 - <10%
Bisphenol A	80-05-7	3 - <5%
Tetraethylene pentamine	112-57-2	0.1 - <1%
Dibutyl phthalate	84-74-2	0.1 - <0.25%

<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:** 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.

**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.

**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. 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.

## 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.



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**Safe handling advice:** 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 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.

Contact avoidance measures: No data available.

**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.

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
m-Xylenediamine	Ceiling	0.018 ppm	US. ACGIH Threshold Limit Values, as amended (02 2020)
Diethylenetriamine	TWA	1 ppm	US. ACGIH Threshold Limit Values, as amended (2008)
Dibutyl phthalate	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended (2011)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)



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Chemical name	Туре	Exposure Limit Values	Source
m-Xylenediamine	CEILING	0.1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
m-Xylenediamine	CEV	0.1 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (01 2020)
m-Xylenediamine	CEILING	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (03 2020)
Diethylenetriamine	TWA	1 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Diethylenetriamine	TWA	1 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Diethylenetriamine	TWA	1 ppm 4.2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Dibutyl phthalate	TWA	5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Dibutyl phthalate	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Dibutyl phthalate	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (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

**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 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.



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**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:Gray

Odor:
Odor threshold:
No data available.
PH:
No data available.
> 260 °C > 500 °F

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 (%): No data available.

Flammability limit - lower (%): 1.40 %(V)

Explosive limit - upper:

Explosive limit - lower:

Vapor pressure:

No data available.

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:
No data available.
No data available.

## 10. Stability and reactivity

**Reactivity:** No data available.

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



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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

**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: 1,328.44 mg/kg

Dermal

**Product:** ATEmix: 4,238.09 mg/kg

Inhalation

**Product:** ATEmix: 1.17 mg/l

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.



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Specified substance(s):

4-tert-Butylphenol in vivo (Rabbit): Not Classified, 7 - 10 d

m-Xylenediamine in vivo (Mouse): Corrosive, 4 h

1,3- in vivo (Rabbit): Corrosive, 1 h

Cyclohexanedimethana

mine

Dibutyl phthalate in vivo (Rabbit): Not irritant, 24 - 72 h

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

4-tert-Butylphenol Rabbit, 24 hrs: Category 1

Dibutyl phthalate Rabbit, 24 - 72 hrs: Not irritant

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

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

No carcinogenic components identified

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

No carcinogenic components identified

**Germ Cell Mutagenicity** 

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** May damage fertility or the unborn child.

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure** 



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**Product:** No data available.

**Aspiration Hazard** 

**Product:** No data available.

Other effects: Constituents of this product may include crystalline silica which, if in

inhalable form, may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimis exposure to these impurities in inhalable form may be carcinogenic

or cause other serious lung problems.

## 12. Ecological information

## **Ecotoxicity:**

## Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):

4-tert-Butylphenol LC 50 (Fathead minnow (Pimephales promelas), 96 h): 4.71 - 5.62 mg/l

Mortality

m-Xylenediamine LC 50 (Oryzias latipes, 96 h): 87.6 mg/l Experimental result, Key study

1,3- LC 50 (Leuciscus idus, 96 h): 130 mg/l Experimental result, Key study

Cyclohexanedimethanam

ıne

LC 50 (Poecilia reticulata, 96 h): 0.43 g/l Experimental result, Key study

Bisphenol A LC 50 (Pimephales promelas, 96 h): 4.6 mg/l Experimental result, Key study

**Aquatic Invertebrates** 

Diethylenetriamine

**Product:** No data available.

Specified substance(s):

4-tert-Butylphenol EC 50 (Daphnia magna, 48 h): 4.8 mg/l experimental result Experimental

result, Key study

m-Xylenediamine EC 50 (Daphnia magna, 48 h): 15.2 mg/l experimental result Experimental

result, Key study

1,3- EC 50 (Daphnia magna, 48 h): 33.1 mg/l experimental result Experimental

Cyclohexanedimethanam result, Key study

24/30



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ine

Diethylenetriamine EC 50 (Daphnia magna, 48 h): 16 mg/l experimental result Experimental

result, Key study

Bisphenol A EC 50 (Daphnia magna, 48 h): 10.2 mg/l experimental result Experimental

result, Key study

Dibutyl phthalate LD 50 (Brine shrimp (Artemia sp.), 24 h): 8 mg/l Mortality

EC 50 (Water flea (Daphnia magna), 24 h): > 11 - 13 mg/l Mortality EC 50 (Water flea (Daphnia magna), 24 h): > 12 - 14 mg/l Mortality LC 50 (Crayfish (Orconectes nais), 24 h): > 10 mg/l Mortality

LC 50 (Polychaete or Opheliid worm (Armandia maculata), 96 h): > 2.9 mg/l

Mortality

## Chronic hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

Specified substance(s):

4-tert-Butylphenol NOAEL (Pimephales promelas): 10 μg/l experimental result Experimental

result, Key study

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

Experimental result, Key study

Bisphenol A NOAEL (Pimephales promelas): 640 µg/l experimental result Experimental

result, Key study

Dibutyl phthalate NOAEL (Oncorhynchus mykiss): 0.1 mg/l experimental result Experimental

result, Not specified

**Aquatic Invertebrates** 

Product:

No data available.

Specified substance(s):

4-tert-Butylphenol NOAEL (Daphnia magna): 0.73 mg/l experimental result Experimental result,

Key study

m-Xylenediamine NOAEL (Daphnia magna): 4.7 mg/l experimental result Experimental result,

Key study

Diethylenetriamine NOAEL (Daphnia magna): 5.6 mg/l experimental result Experimental result,

Key study

Bisphenol A NOAEL (Daphnia magna): 1 mg/l experimental result Experimental result,

Supporting study

**Toxicity to Aquatic Plants** 

Product:

No data available.

Specified substance(s):

Dibutyl phthalate EC 50 (Green algae (Scenedesmus acutus), 96 h): 0.21 mg/l Mortality

Persistence and Degradability



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Biodegradation

**Product:** No data available.

Specified substance(s):

4-tert-Butylphenol 60 % (28 d) Detected in water. Experimental result, Key study

m-Xylenediamine 49 % (28 d) Detected in water. Experimental result, Key study

1,3- 29 % (28 d) Detected in water. Experimental result, Key study

Cyclohexanedimethanami

ne

Diethylenetriamine 87 % Detected in water. Experimental result, Key study

Bisphenol A 89 % (28 d) Detected in water. Experimental result, Key study

Dibutyl phthalate 100 % 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-tert-Butylphenol Cyprinus carpio, Bioconcentration Factor (BCF): 44 - 48 Aquatic sediment

Experimental result, Key study

Diethylenetriamine Cyprinus carpio, Bioconcentration Factor (BCF): > 2.8 - 6.3 Aquatic

sediment Experimental result, Key study

Bisphenol A Cyprinus carpio, Bioconcentration Factor (BCF): 20 - 67 Aquatic sediment

Experimental result, Key study

Dibutyl phthalate Raphanus sativus, Bioconcentration Factor (BCF): < 1 Terrestrial

Experimental result, Key study

Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

Specified substance(s):

Bisphenol A Log Kow: 3.32

Log Kow: 3.32

Tetraethylene pentamine Log Kow: 1.503

Dibutyl phthalate Log Kow: 4.50

Mobility in soil: No data available.

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



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## 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. (1,3-Cyclohexanedimethanamine, Xylene Diamine), 8, PG II

## CFR / DOT:

UN1760, Corrosive liquids, n.o.s. (1,3-Cyclohexanedimethanamine, Xylene Diamine), 8, PG II

#### IMDG:

UN1760, CORROSIVE LIQUID, N.O.S. (1,3-Cyclohexanedimethanamine, Xylene Diamine), 8, PG II

## **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.

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

Dibutyl phthalate 10 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



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Reproductive toxicity

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

Bisphenol A 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



#### WARNING

Cancer and 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:

0 g/l

Regulatory VOC (less water and

: 0 g/l 0 g/l

exempt solvent)

VOC Method 310 : 0.00 %



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**Inventory Status:** 

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.

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.

US TSCA Inventory: All components in this product are

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.

Mexico INSQ: 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



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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.

China Inv. Existing Chemical

Substances:

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:** 11/17/2022

Version #: 2.1

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.