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## **SAFETY DATA SHEET**

#### 1. Identification

Material name: ULTRAGUARD

Material: 059LS-55

Recommended use and restriction on use

Recommended use: Coatings Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

EUCLID CHEMICAL COMPANY 19218 REDWOOD ROAD CLEVELAND OH 44110 US

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

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

#### 2. Hazard(s) identification

#### **Hazard Classification**

#### **Health Hazards**

Toxic to reproduction Category 1B

#### **Unknown toxicity - Health**

Acute toxicity, oral 1.46 %
Acute toxicity, dermal 2.6 %
Acute toxicity, inhalation, vapor 26.7 %
Acute toxicity, inhalation, dust 26.92 %

or mist

#### **Label Elements**

#### **Hazard Symbol:**



Signal Word: Danger

**Hazard Statement:** May damage fertility or the unborn child.



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Precautionary Statements

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

precautions have been read and understood. Use personal protective

equipment as required.

**Response:** IF exposed or concerned: Get medical advice/attention.

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 (%)*
Isobutyric acid polymer	25265-77-4	1 - <5%
Glycol ether solvent	112-34-5	0.1 - <1%
2-Butoxyethanol (Glycol ether)	111-76-2	0.1 - <1%
Dibutyl phthalate	84-74-2	0.1 - <0.3%

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

#### 4. First-aid measures

#### Description of necessary first-aid measures

**Inhalation:** Move to fresh air.

**Skin Contact:** Wash skin thoroughly with soap and water. If skin irritation occurs:

Get medical advice/attention.

Eye contact: Any material that contacts the eye should be washed out immediately

with water. If easy to do, remove contact lenses. If eye irritation

persists: Get medical advice/attention.

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

Personal Protection for First-

Self-contained breathing apparatus and full protective clothing must

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

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

**Symptoms:** May cause skin and eye irritation.

**Hazards:** No data available.



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#### Indication of immediate medical attention and special treatment needed

**Treatment:** Get medical attention if symptoms occur.

#### 5. Fire-fighting measures

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

#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

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

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

#### Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

#### 6. Accidental release measures

Personal precautions,

protective equipment and emergency procedures:

No data available.

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:** Avoid release to the environment. Prevent further leakage or spillage if safe

to do so. Do not contaminate water sources or sewer. Environmental

manager must be informed of all major spillages.

#### 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 handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required.

Contact avoidance measures: No data available.

**Hygiene measures:** Do not handle until all safety precautions have been read and understood.

Obtain special instructions before use. Observe good industrial hygiene

practices.

**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
Glycol ether solvent - Inhalable fraction and vapor.	TWA	10 ppm	US. ACGIH Threshold Limit Values (03 2013)
2-Butoxyethanol (Glycol ether)	TWA	20 ppm	US. ACGIH Threshold Limit Values (2011)
	PEL	50 ppm 240 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Dibutyl phthalate	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (2011)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

Chemical name	Туре	Exposure Limit Values	Source
Glycol ether solvent - Inhalable fraction and vapor.	TWA	10 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)



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Glycol ether solvent - Inhalable fraction and vapor.  2-Butoxyethanol (Glycol ether)  2-Butoxyethanol (Glycol ether)  2-Butoxyethanol (Glycol ether)  7WA  2-Butoxyethanol (Glycol ether)  7WA  7Propylene glycol - Aerosol.  7WA  7Propylene glycol - Vapor and aerosol.  7Propylene glycol - Vapor and aerosol.	A A A A A A A A A A A A A A A A A A A	10 ppm 20 ppm 20 ppm 20 ppm 50 ppm	97 mg/m3 10 mg/m3 155 mg/m3 5 mg/m3 5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)  Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)  Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
ether)  2-Butoxyethanol (Glycol ether)  2-Butoxyethanol (Glycol ether)  Propylene glycol - Aerosol.  Propylene glycol - Vapor and aerosol.  Dibutyl phthalate  TWA	4	20 ppm 20 ppm	10 mg/m3 155 mg/m3 5 mg/m3	Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)  Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)  Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
ether)  2-Butoxyethanol (Glycol ether)  Propylene glycol - Aerosol.  Propylene glycol - Vapor and aerosol.  Dibutyl phthalate  TWA	4	20 ppm	10 mg/m3 155 mg/m3 5 mg/m3	Biological or Chemical Agents) (11 2010)  Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)  Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
ether)  Propylene glycol - Aerosol.  TWA  Propylene glycol - Vapor and aerosol.  Dibutyl phthalate  TWA  Dibutyl phthalate  TWA	A A A A A A A A A A A A A A A A A A A		10 mg/m3 155 mg/m3 5 mg/m3	Regulation Respecting the Quality of the Work Environment) (09 2017)  Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)  Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Propylene glycol - Vapor and aerosol.  Dibutyl phthalate  TWA	A A A A A A A A A A A A A A A A A A A	50 ppm	155 mg/m3 5 mg/m3 5 mg/m3	Biological or Chemical Agents) (11 2010)  Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)  Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
aerosol.  Dibutyl phthalate  TWA	A A	50 ppm	5 mg/m3 5 mg/m3	Biological or Chemical Agents) (06 2015)  Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)  Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Dibutyl phthalate TWA	A A		5 mg/m3	Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
,	Α			Biological or Chemical Agents) (11 2010)
Dibutyl phthalate TWA			5 mg/m3	Canada, Quebec OELs, (Ministry of Labor -
	4			Regulation Respecting the Quality of the Work Environment) (09 2017)
Glycerine - Mist. TWA			10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Glycerine - Respirable mist. TWA	A		3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Glycerine - Mist.	4		10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Methyl methacrylate TWA	<b>A</b>	50 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
STE	L	100 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Methyl methacrylate TWA	4	50 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
STE	L	100 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Methyl methacrylate TWA	4	50 ppm	205 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Ammonium hydroxide STE	L	35 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
TWA	Α	25 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Ammonium hydroxide TWA	Α	25 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
STE	L	35 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)

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Ethylene glycol - Vapor.	CEILING	50 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Ethylene glycol - Aerosol.	CEILING		100 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Ethylene glycol - Particulate.	TWA		10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL		20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Ethylene glycol - Aerosol.	CEV		100 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Ethylene glycol - Vapor and mist	CEILING	50 ppm	127 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Formaldehyde	TWA	0.3 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	CEILING	1 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Formaldehyde	STEL	1 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	CEV	1.5 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Formaldehyde	CEILING	2 ppm	3 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
n-Butanol	CEILING	30 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	15 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
n-Butanol	TWA	20 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
n-Butanol	CEILING	50 ppm	152 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
p-Dioxane	TWA	20 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
p-Dioxane	TWA	20 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
p-Dioxane	TWA	20 ppm	72 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Ethylene oxide	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)
	STEL	1 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



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Ethylene oxide	STEL	10 ppm	18 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
	TWA	1 ppm	1.8 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Ethylene oxide	TWA	1 ppm	1.8 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

**Biological Limit Values** 

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

### 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:** Use personal protective equipment as required.

**Eye/face protection:** Wear goggles/face shield.

**Skin Protection** 

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

Other: No data available.

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

local supervisor.

**Hygiene measures:** Do not handle until all safety precautions have been read and understood.

Obtain special instructions before use. Observe good industrial hygiene

practices.

#### 9. Physical and chemical properties

#### **Appearance**

Physical state: liquid
Form: liquid
Color: White
Odor: Mild

Odor threshold:

pH:

No data available.

No data available.

Melting point/freezing point:

No data available.

Flash Point:

No data available.

Slower than Ether

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



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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: 1.03

Solubility(ies)

Solubility in water: Soluble

Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity: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:** Strong acids. Strong bases.

**Hazardous Decomposition** 

Thermal decomposition or combustion may liberate carbon oxides and

**Products:** 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:** Causes mild skin irritation.

**Eye contact:** Eye contact is possible and should be avoided.

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

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

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.



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**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):

Isobutyric acid polymer LD 50 (Rat): > 3,200 mg/kg

Glycol ether solvent LD 50 (Rat): 3,306 mg/kg

2-Butoxyethanol (Glycol

ether)

LD 50 (Rat): 1,746 mg/kg

Dibutyl phthalate LD 50 (Rat): 6,279 mg/kg

**Dermal** 

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

Specified substance(s):

Glycol ether solvent LD 50 (Rabbit): 2,764 mg/kg

2-Butoxyethanol (Glycol

ether)

LD 50 (Rabbit): 1,060 mg/kg

Dibutyl phthalate LD 50 (Rabbit): 4,200 mg/kg

Inhalation

**Product:** ATEmix: 352.46 mg/l

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Specified substance(s):



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Isobutyric acid polymer in vivo (Rabbit): Category 3

Glycol ether solvent in vivo (Rabbit): Slightly irritating

2-Butoxyethanol (Glycol in vivo (Rabbit): Irritating

ether)

Dibutyl phthalate in vivo (Rabbit): Not irritant

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

Isobutyric acid polymer Rabbit, 24 hrs: Slightly irritating

Glycol ether solvent Rabbit, 24 - 72 hrs: Highly irritating

ether)

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

Dibutyl phthalate Rabbit, 24 - 72 hrs: Not irritating

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

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

No carcinogenic components identified

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

No carcinogenic components identified

**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.



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**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):

Glycol ether solvent LC 50 (Bluegill (Lepomis macrochirus), 96 h): 1,300 mg/l Mortality

2-Butoxyethanol (Glycol

ether)

LC 50 (Oncorhynchus mykiss, 96 h): 1,464 mg/l

LC 50 (Fathead minnow (Pimephales promelas), 96 h): 0.92 mg/l Mortality Dibutyl phthalate

**Aquatic Invertebrates** 

Product: No data available.

Specified substance(s):

2-Butoxyethanol (Glycol

ether)

EC 50 (Daphnia magna, 48 h): 1,800 mg/l

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

> 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):

2-Butoxyethanol (Glycol

ether)

NOAEL (Danio rerio, 21 d): > 100 mg/l Experimental result, Key study

Dibutyl phthalate LOAEL (Oncorhynchus mykiss, 99 d): 0.19 mg/l Experimental result, Key

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study

NOAEL (Oncorhynchus mykiss, 99 d): 0.19 mg/l Experimental result, Key

study

LOAEL (Oncorhynchus mykiss, 99 d): 0.4 mg/l Experimental result, Key

study

NOAEL (Oncorhynchus mykiss, 99 d): 0.1 mg/l Experimental result, Not

specified

NOAEL (Oncorhynchus mykiss, 99 d): 0.1 mg/l Experimental result, Key

study

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

2-Butoxyethanol (Glycol

ether)

NOEC (Daphnia magna, 21 d): 100 mg/l

**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** 

Biodegradation

**Product:** No data available.

**BOD/COD Ratio** 

**Product:** No data available.

**Bioaccumulative potential** 

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Specified substance(s):

Dibutyl phthalate Green algae (Selenastrum capricornutum), Bioconcentration Factor (BCF):

8,826 (Static)

Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

Specified substance(s):

Glycol ether solvent Log Kow: 0.56

2-Butoxyethanol (Glycol

ether)

Log Kow: 0.83

Dibutyl phthalate Log Kow: 4.9

Mobility in soil: No data available.



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Other adverse effects: No data available.

#### 13. Disposal considerations

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

accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Contaminated Packaging: No data available.

#### 14. Transport information

TDG:

Not Regulated

CFR / DOT:

Not Regulated

IMDG:

Not Regulated

#### 15. Regulatory information

#### **US Federal Regulations**

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

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.



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

**Chemical Identity** OSHA hazard(s) Formaldehyde Acute toxicity

Skin irritation Skin sensitization

Flammability

respiratory tract irritation Respiratory sensitization

Cancer Eye irritation

Ethylene oxide Skin sensitization

Reproductive toxicity

Mutagenicity Eye irritation Acute toxicity

respiratory tract irritation

Cancer Skin irritation Flammability

Central nervous system

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

Chemical Identity	Reportable quantity
Dibutyl phthalate	10 lbs.
Methyl methacrylate	1000 lbs.
Ammonium hydroxide	1000 lbs.
Ethylene glycol	5000 lbs.
Formaldehyde	100 lbs.
n-Butanol	5000 lbs.
p-Dioxane	100 lbs.
Ethylene oxide	10 lbs.

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

#### **Hazard categories**

Delayed (Chronic) Health Hazard Reproductive toxicity

#### SARA 302 Extremely Hazardous Substance

**Reportable** quantity

**Chemical Identity Threshold Planning Quantity** 100 lbs. Formaldehyde 500 lbs. Ethylene oxide 1000 lbs. 10 lbs.



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#### SARA 304 Emergency Release Notification

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

Glycol ether solvent 2-Butoxyethanol (Glycol

ether)

Dibutyl phthalate 10 lbs. 1000 lbs. Methyl methacrylate Ammonium hydroxide 1000 lbs. Ethylene glycol 5000 lbs. Formaldehyde 100 lbs. n-Butanol 5000 lbs. p-Dioxane 100 lbs. Ethylene oxide 10 lbs.

#### SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

Formaldehyde 500lbs
Ethylene oxide 500lbs
Isobutyric acid polymer 10000 lbs
Glycol ether solvent 10000 lbs
2-Butoxyethanol (Glycol 10000 lbs

ether)

Dibutyl phthalate 10000 lbs

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

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

Chemical Identity Reportable quantity

Formaldehyde lbs Ethylene oxide lbs

#### 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

#### **Chemical Identity**

2-Butoxyethanol (Glycol ether)

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

#### **Chemical Identity**

Formaldehyde

p-Dioxane

Ethylene oxide



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

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

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

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

#### International regulations

#### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

#### **Rotterdam convention**

Not applicable

# Kyoto protocol Not applicable

VOC:

Regulatory VOC (less water and : 99 g/l

exempt solvent)

VOC Method 310 : 2.41 %



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**Inventory Status:** 

Australia AICS:

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

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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.

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: All components in this product are listed on or

exempt from the Inventory.

US TSCA Inventory:

All components in this product are listed on or

exempt from the Inventory.



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

**Revision Date:** 07/11/2019

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.