

## Clean Start Disinfectant

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Clean Start Disinfectant
<b>Other Means of Identification</b>	Code: ECJ-091
<b>Recommended Use</b>	Cleaner/Disinfectant.
<b>Manufacturer</b>	Epsilon Chemicals Ltd., 1926-94 Street N.W., Edmonton, Alberta, T6N1J3, (780) 438-3040
<b>Emergency Phone No.</b>	CANUTEC, (613) 996-6666, 24/7

### SECTION 2. HAZARD IDENTIFICATION

**Classification**

Eye irritation - Category 2B

**Label Elements**

Warning

Hazard Statement(s):

Causes eye irritation.

Prevention:

Wash hands thoroughly after handling.

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.

Storage:

Store locked up in a cool, well-ventilated place away from possible contaminants.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Diethylene glycol monobutyl ether	112-34-5	5-10		
Tetrasodium ethylenediaminetetraacetate	64-02-8	1-5		

**Notes**

Concentrations are expressed in % weight/weight.

Actual concentrations are withheld as a trade secret.

### SECTION 4. FIRST-AID MEASURES

**First-aid Measures**

**Inhalation**

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

### Skin Contact

Flush contact areas with copious amounts of soap and water for at least 10 minutes. Get medical attention if irritation persists.

### Eye Contact

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 or attention.

### Ingestion

Rinse mouth with water. Get medical advice or attention if you feel unwell or are concerned.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Use extinguishing agent suitable for surrounding fire.

#### Unsuitable Extinguishing Media

Do not use high-volume water jet.

### Specific Hazards Arising from the Product

This product presents no unusual hazards in a fire situation.

Hazardous decomposition products: carbon oxides, nitrogen oxides.

### Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

### Environmental Precautions

It is good practice to prevent releases into the environment.

### Methods and Materials for Containment and Cleaning Up

Large spills or leaks: stop or reduce leak if safe to do so. Dike spilled product to prevent runoff. Contain and soak up spill with absorbent that does not react with spilled product. Wash area with water. Small spills or leaks: contain and soak up spill with absorbent that does not react with spilled product. Wash area with water.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid repeated or prolonged skin contact. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin, and clothing. Do not eat, drink, or smoke when using this product.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL		AIHA® WEEL®	
	TWA	STEL [C]	TWA	Ceiling	8-hr TWA	Short-term TWA [C]
Tetrasodium ethylenediaminetetraacetate	Not established		Not established			
Diethylene glycol monobutyl ether	10 ppm		Not established			

### Appropriate Engineering Controls

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air.

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## Individual Protection Measures

### Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

### Skin Protection

Not required, if used as directed. Gloves and coveralls may be worn.

### Respiratory Protection

Not normally required if product is used as directed. Use appropriate certified respirators when facing concentrations above the exposure limit.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Odour	Soapy
pH	~ 11.7
Melting Point/Freezing Point	0 °C (freezing)
Boiling point/Initial boiling point	100 °C
Flash Point	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Relative Density (water = 1)	~ 1.00
Solubility	Soluble in all proportions in water
Auto-ignition Temperature	Not applicable
<b>Other Information</b>	
Physical State	Liquid

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

### Conditions to Avoid

Incompatible materials.

### Incompatible Materials

Strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide), oxidizing agents (e.g. peroxides).

### Hazardous Decomposition Products

May include and are not limited to oxides of carbon, oxides of nitrogen and ammonia when heated to decomposition.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Tetrasodium ethylenediaminetetraacetate	Not available	10000 mg/kg (rat)	Not available
Diethylene glycol monobutyl ether	Not available	5660 mg/kg (rat)	2764 mg/kg (rabbit)

### Skin Corrosion/Irritation

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Causes mild skin irritation.

**Serious Eye Damage/Irritation**

Causes eye irritation.

**STOT (Specific Target Organ Toxicity) - Single Exposure**

**Inhalation**

Prolonged inhalation may be harmful.

**Ingestion**

Expected to be a low ingestion hazard.

**Respiratory and/or Skin Sensitization**

Not known to be a respiratory sensitizer.

**Carcinogenicity**

Chemical Name	IARC	ACGIH®	NTP	OSHA
Tetrasodium ethylenediaminetetraacetate	Not Listed	Not designated	Not Listed	Not Listed
Diethylene glycol monobutyl ether	Not Listed	Not designated	Not Listed	Not Listed

Not known to cause cancer.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

No information was located.

**Persistence and Degradability**

Expected to be readily biodegradable.

**Bioaccumulative Potential**

No information was located.

**Mobility in Soil**

Studies are not available.

**Other Adverse Effects**

There is no information available.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations.

## SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

## SECTION 16. OTHER INFORMATION

<b>SDS Prepared By</b>	Technical Service Department, Epsilon Chemicals
<b>Phone No.</b>	(780) 438-3040
<b>Date of Preparation</b>	June 09, 2020
<b>Date of Last Revision</b>	June 09, 2020
<b>Key to Abbreviations</b>	ACGIH® = American Conference of Governmental Industrial Hygienists AIHA® = AIHA® Guideline Foundation HSDB® = Hazardous Substances Data Bank IARC = International Agency for Research on Cancer NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety and Health NTP = National Toxicology Program OSHA = US Occupational Safety and Health Administration RTECS® = Registry of Toxic Effects of Chemical Substances
<b>References</b>	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).
<b>Disclaimer</b>	The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injuries from the use of the product described herein.

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