

CITRABLAST

SECTION 1. IDENTIFICATION

Product Identifier	CITRABLAST
Other Means of Identification	Code: EC-065
Recommended Use	Cleaning product.
Restrictions on Use	Reserved for industrial and professional use.
Manufacturer/Supplier Identifier	Epsilon Chemicals Ltd., 1926-94 Street N.W., Edmonton, Alberta, T6N1J3, (780) 438-3040
Emergency Phone No.	CANUTEC, (613) 996-6666, 24/7

SECTION 2. HAZARD IDENTIFICATION

Classification

Flammable liquid - Category 3; Skin irritation - Category 3; Eye irritation - Category 2A

Label Elements



Signal Word:
Warning

Hazard Statement(s):

H226	Flammable liquid and vapour.
H316	Causes mild skin irritation.
H319	Causes serious eye irritation.

Precautionary Statement(s):

Prevention:

P210	Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash hands thoroughly after handling.
P280	Wear eye protection/face protection.

Response:

IF SWALLOWED: Rinse mouth. Induce vomiting. Give large quantities of water to drink.

Get medical attention.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage:

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

Keep container closed when not in use.

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Disposal:
P501 Dispose of contents and container in accordance with local, regional, national and international regulations.
Other Hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Terpene hydrocarbon	68956-56-9	45-70		
Fatty alcohol ethoxylate	9002-92-0	3-7	Not applicable	
Blend of alcohols, ethoxylated	68439-46-3	3-7	Not applicable	
Diethylene glycol monobutyl ether	112-34-5	3-7	Not applicable	
Fatty acids, C8-18 and C18-unsatd., compds. with diisopropanolamine	68855-69-6	3-7		

Notes

Concentrations are expressed in % weight/weight.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Skin Contact

Rinse with lukewarm, gently flowing water for 5 minutes. If skin irritation occurs, get medical advice or attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice or attention.

Ingestion

Rinse mouth with water. Induce vomiting. Give plenty of water to drink. Get medical attention.

First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

If on skin: may cause mild irritation. Could cause defatting of tissue on prolonged contact.

If swallowed: may cause nausea, vomiting and diarrhea.

If in eyes: causes temporary discomfort and redness.

Immediate Medical Attention and Special Treatment

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Combustible liquid. Can ignite if heated.

Hazardous combustion products: carbon oxides, nitrogen oxides.

Special Protective Equipment and Precautions for Fire-fighters

Use water spray to cool fire-exposed containers.

See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective

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materials.

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.

Remove or isolate incompatible materials as well as other hazardous materials.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Methods and Materials for Containment and Cleaning Up

Stop or reduce leak if safe to do so.

Small spills or leaks: flush spill area.

Large spills or leaks: contain and pick up. Absorb with noncombustible material such as vermiculite, earth or sand.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not get in eyes, on skin or on clothing. Rubber or plastic gloves may be worn to minimize prolonged contact with skin.

Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs.

Conditions for Safe Storage

Store in an area that is: cool, dry, ventilated, out of direct sunlight and away from heat and ignition sources, separate from incompatible materials (see Section 10: Stability and Reactivity).

Store in a closed container.

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]
Diethylene glycol monobutyl ether	10 ppm		Not established			

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. AIHA® = AIHA® Guideline Foundation. WEEL® = Workplace Environmental Exposure Limit. TWA = Time-Weighted Average. STEL = Short-term Exposure Limit. C = Ceiling limit.

Appropriate Engineering Controls

General ventilation is usually adequate. Provide eyewash in work area, if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles when contact is possible.

Skin Protection

Rubber or plastic gloves may be worn to minimize prolonged contact with skin.

Respiratory Protection

Not required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance Colourless viscous liquid.

Odour Citrus

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Odour Threshold	Not available
pH	9.5 - 10.5
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not available
Flash Point	Not available
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable (liquid).
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.03 - 1.04
Solubility	Soluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Physical State	Liquid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Hazardous combustion products: carbon oxides, nitrogen oxides.

Conditions to Avoid

High temperatures. Open flames, sparks, static discharge, heat and other ignition sources.
Freezing.

Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid).

Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Eye contact; skin contact.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Fatty alcohol ethoxylate	Not available	> 2000 mg/kg (rat)	> 2000 mg/kg (rabbit)
Blend of alcohols, ethoxylated	Not available	1378 mg/kg (rat)	> 2000 mg/kg (rabbit)
Diethylene glycol monobutyl ether	Not available	5660 mg/kg (rat)	2764 mg/kg (rabbit)
Terpene hydrocarbon		> 4000 mg/kg (rat)	

Skin Corrosion/Irritation

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Contact with skin may cause mild irritation. Could cause defatting of tissue on prolonged contact.

Serious Eye Damage/Irritation

Causes temporary discomfort and redness upon contact with eyes.

STOT (Specific Target Organ Toxicity) - Single Exposure

Ingestion

May cause nausea, vomiting, diarrhea.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Fatty alcohol ethoxylate	Not Listed	Not designated	Not Listed	Not Listed
Blend of alcohols, ethoxylated	Not Listed	Not designated	Not Listed	Not Listed
Diethylene glycol monobutyl ether	Not Listed	Not designated	Not Listed	Not Listed

Key to Abbreviations

IARC = International Agency for Research on Cancer. Group 3 = Not classifiable as to its carcinogenicity to humans. Group 2B = Possibly carcinogenic to humans. ACGIH® = American Conference of Governmental Industrial Hygienists. NTP = National Toxicology Program. OSHA = US Occupational Safety and Health Administration.

No information was located for: Aspiration Hazard, STOT (Specific Target Organ Toxicity) - Repeated Exposure, Respiratory and/or Skin Sensitization, Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No information was located.

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Product should not be allowed to enter drains, water courses or the soil. This product and its container should be disposed of in accordance with local, regional, national and international regulations.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT	2319	Terpene hydrocarbons (d-Limonene)	3	III
Canadian TDG	2319	Terpene hydrocarbons (d-Limonene)	3	III

Special Precautions Not applicable

Other Information Not regulated under US DOT when transported by road or rail in packaging or containers of 450 L or less.

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

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Canada

WHMIS 1988 Classification



Class B3



Class D2B

B3 - Combustible Liquid; D2B - Toxic (Skin irritant; Eye irritant)

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL or are not required to be listed.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

SECTION 16. OTHER INFORMATION

NFPA Rating	Health - 1	Flammability - 2	Instability - 0
SDS Prepared By	Technical Service Department, Epsilon Chemicals		
Phone No.	(780) 438-3040		
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References	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). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).		
Disclaimer	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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