



5515 North Service Rd. #306
Burlington, Ontario L7L 6G4

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megaloid.ca



Responsible Care®
Our commitment to sustainability.



Responsible Distribution Canada
Leaders in Chemicals and Ingredients

1. IDENTIFICATION

Name: Ethyl 3-Ethoxypropionate

Synonyms: EEP, 3-ethoxypropionic acid, ethyl ester; ethyl beta-ethoxypropionate; propionic acid, 3-ethoxy-ethyl ester;

Product Uses: Solvent in coatings, chemical synthesis

Supplier: Megaloid Laboratories Limited
Identifier: 5515 North Service Road # 306
Burlington, ON L7L 6G4

EMERGENCY INFORMATION: Call CHEMTREC - (800) 424-9300
(CCN# 693764)

2. HAZARD IDENTIFICATION

GHS Class (category)	Flammable (3)	Aquatic, acute (3)
Signal Word	WARNING	
Hazard Statements	Flammable liquid and vapour (H226)	Harmful to aquatic life (H402)

Hazardous Pictograms



GHS Precautionary Statements for Labelling

Prevention:

P210 Keep away from heat, hot surfaces,

P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, and lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P273	Avoid release to the environment.
P280	Wear protective gloves / protective clothing / eye protection
Response:	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
P370 + P378	IN CASE OF FIRE: Use appropriate foam, dry chemical powder, water spray or fog to extinguish
Storage:	
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
Disposal:	
P501	Dispose of contents and container in accordance with local, regional, national and international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:	CAS No.	% weight	Other Identifiers
Ethyl 3-ethoxypropionate	763-69-9	100	EC # 212-112-9

4. FIRST-AID MEASURES

Inhalation

Remove from contaminated area promptly. **CAUTION: Rescuer must not endanger himself!** If breathing stops, administer artificial respiration and seek medical aid promptly.

Skin Contact

Wash with plenty of water. Remove contaminated clothing and do not reuse until thoroughly laundered.

Eye Contact

Wash eyes with plenty of water, holding eyelids open. Seek medical assistance if there is any irritation.

Ingestion

Give plenty of water to dilute product. Do not induce vomiting. Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

Most important symptoms and effects, both acute and delayed

Not known

Notes to physician

Treat symptomatically

First-aid Comments

Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity substance. The stomach should only be emptied under medical supervision, and after the installation of an airway to protect the lungs.

5. FIRE FIGHTING MEASURES**Suitable Extinguishing Media**

Foam, dry chemical, water fog, water spray only to cool & dilute, product floats on water.

Unsuitable Extinguishing Media

Do not use water jet - spreads fire.

Specific Hazards Arising from the Product

Carbon monoxide, nitrogen oxides, smoke, part oxidised hydrocarbon fragments

Special Protective Equipment and Precautions for Fire-fighters

Firefighters must wear SCBA Full Bunker Gear.

Static Charge Accumulation

Cannot accumulate a static charge on agitation or pumping.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Restrict access to area until completion of cleanup. Ensure cleanup is conducted by trained personnel only. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Ventilate area. Extinguish or remove all ignition sources. Notify government occupational health and safety and environmental authorities. Workers involved in spill clean-up must wear respirators with organic vapour cartridge; use a fresh cartridge every time
NOTE: If spill is extensive, and ventilation is inadequate, consider wearing an air-supplied respirator.

Methods and materials for containment and cleaning up

Leak Precaution: dyke to control spillage and prevent environmental contamination handling
Spill: ventilate contaminated area; recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep & pick up using plastic or aluminium shovel, & store in closed containers for recycling or disposal.

Environmental Precautions

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It is good practice to prevent releases into the environment. 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.

7. HANDLING & STORAGE

Precautions for Safe Handling

Product may react with oxygen in the air to form explosive or flammable peroxides. Although this product has a lower tendency to peroxidise than other glycol ethers, ensure that containers are full and tightly sealed. If prolonged storage of a part container is anticipated, flush headspace with dry nitrogen gas prior to sealing. Empty containers may contain a flammable / explosive vapour. Always ensure that containers, whether empty or full, or part full, are tightly sealed unless in use. Avoid breathing product vapour. If product is handled hot, use a sealed apparatus to prevent vapour escape into the workplace. Never cut, drill, weld or grind on or near this container. Avoid contact with skin and wash work clothes frequently. An eye bath and safety shower should be available near the workplace.

Conditions for Safe Storage

Store in a cool, dry environment, away from sources of ignition, heat and oxidising agents.

8. EXPOSURE CONTROL & PERSONAL PROTECTION

Ontario TWAEV	50 ppm / 300 mg/m ³	Ontario STEV	Not listed
AGGIH TLV	Not listed	ACGIH STEL	100 ppm
OSHA PEL	Not listed	OSHA STEL	Not listed

Ventilation	mechanical ventilation may be required to control airborne titre; depending on handling procedures
Hands	not required; nitrile or "Viton" gloves may be worn – <i>other types also protect; confirm suitability with supplier</i>
Eyes	safety glasses with side shields – <i>always protect the eyes</i>
Clothing	no special protective clothing required

9. PHYSICAL & CHEMICAL PROPERTIES

Odour & Appearance	clear, colourless liquid with mild, sweetish, rather unpleasant odour
Odour threshold	not known
pH	none
Melting point/Freezing point	-50°C / -58°F
Initial boiling point/boiling range	165-172°C / 329-342°F
Flash point	58° / 136°F (closed cup)

Evaporation rate (Butyl Acetate = 1)	0.12
Flammability (solid; gas)	no data available
Lower flammable/explosive limit	1%
Upper flammable/explosive limit	8.7%
Vapour pressure	1.28mmHg / 0.17kPa (25°C / 77°F), also 1.73 mmHg / 0.23kPa (20°C / 68°F)
Vapour density (air = 1)	5
Relative density (water=1)	0.951 at 20 °C (68 °F) / 20 °C Literature
Water Solubility	54.1 g/L at 20 °C (68 °F) Literature
Log PO/W (Octanol/H2O partition)	1.08; 1.47
Auto ignition temperature	377°C / 711°F
Decomposition temperature	not known – <i>no decomposition below the Autoignition Temperature</i>
Viscosity	1.20 m Pas (25 °C)
Conversion Factor	1ppm = 5.97mg/m ³
Molecular Weight	146 grams per mole
Molecular Formula	C7-H14-O3

10. STABILITY AND REACTIVITY

Reactivity

Strong oxidising agents; strong acids

Chemical Stability

Stable under normal conditions

Possibility of Hazardous Reactions

Polymerization will not occur.

Conditions to avoid

Heat, flames and sparks. Eliminate all sources of ignition.

Incompatible materials

Avoid contact with: Strong acids. Strong bases. Strong oxidizers.

Hazardous decomposition products

None apart from Hazardous Combustion Products

Sensitive to Mechanical Impact

No

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	
Skin Contact	not irritating or slightly irritating
Skin Absorption	yes; no toxic effects likely by this route
Eye Contact	slightly irritating
Inhalation	not known – <i>probably low irritancy</i>
Ingestion	not known – <i>not a route of industrial exposure</i>
LD₅₀ (oral)	3200-5000 & >5000mg/kg (rat)
LD₅₀ (skin)	9500mg/kg (rabbit), >18,000mg/kg (guinea pig)
LC₅₀ (inhalation)	>1220 & >2400ppm (rat)

11. TOXICITY, CONTINUED

General

Prolonged exposure may cause dermatitis; prolonged exposure of rats to 1000ppm & to 1000mg/kg/day (oral) caused slight metabolic effects – *both doses are high & not relevant to industrial exposure, particularly inhalation due to the disagreeable odour of EEP*

Sensitising

Not a sensitiser in humans or animals

Carcinogen

Not considered a carcinogen in humans or animals. IARC: Not specifically listed. ACGIH®: Not specifically designated. NTP: Not specifically listed. OSHA: Not specifically listed.

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists. IARC = International Agency for Research on Cancer. NTP = National Toxicology Program. OSHA = US Occupational Safety and Health Administration.

Reproductive Effect

No known effect in humans or animals

Mutagen

No known effect on humans or in animals

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Synergistic with
Not known

12. ECOLOGICAL INFORMATION

Bioaccumulation	rapidly eliminated; cannot bioaccumulate
Biodegradation	biodegrades readily in the presence of oxygen; 59% in 20days, 80% in 13 days, 65% in 28 days, 99% in 28 days
Abiotic Degradation	reacts with atmospheric hydroxyl radicals; estimated ½-life in air is 0.7 days & 24 hours
Mobility in soil, water	sufficiently water soluble to move readily & rapidly in soil & water
<i>Aquatic Toxicity</i>	
LC₅₀ (Fish, 96hr)	50, 62, 88 & 90mg/litre (Pimephales promelas)
EC₅₀ (Crustacea, 48hr)	95, 480, 785 & 970mg/litre (Daphnia magna), 95mg/litre (Gammarus fasciatus)
EC₅₀ (Algae)	115mg/litre (Pseudokirchnerella subcapitata)
EC₁₀ (Bacteria)	>5000mg/litre (<i>activated sludge industrial</i>)

13. DISPOSAL

Waste Disposal

Do not flush to sewer, recycle solvent if possible, local regulations may permit disposal in sanitary landfill, may be incinerated in approved facility after mixing with a suitable flammable waste

Containers

Drums should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use.


Pails must be vented and thoroughly dried prior to crushing and recycling.

IBCs (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months. Replace at 60 months (5yrs).

Steel containers must be inspected, pressure tested & recertified every 5 years.

***Never cut, drill, weld or grind on or near this container,
even if empty***

14. TRANSPORT INFORMATION

Canada TDG	UN / PIN # UN3272	
AND	Shipping Name Esters, N.O.S. (ethyl 3-ethoxpropionate)	
U.S.A. 49 CFR	Class & Packing Group 3, III	
Marine Pollutant	Not a marine pollutant	
ERAP Required (CA only)	No	
Emergency Response Guide No.	127	
Reportable Quantity (RQ – USA only)	None	

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

15. REGULATORY INFORMATION

Canada DSL	On Inventory
U.S.A. TSCA	On Inventory
Europe EINECS	On Inventory

Canada Regulations:

CEPA - National Pollutant Release Inventory (NPRI)
Part 5.

U.S.A. Regulations:

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312:

Fire Hazard
Immediate health hazard

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Additional USA Regulatory Lists

Pennsylvania Worker and Community Right-To-Know Act: To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986) WARNING:

This product contains a chemical(s) known to the State of California to cause cancer. Components CASRN: Ethyl acrylate 140-88-5, Ethanol 64-17-5

International Regulations:

International Inventories

Listed on the chemical inventories of the following countries or qualifies for an exemption:

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

16. OTHER INFORMATION

NFPA RATING	Health 2	Flammability 2	Instability 0
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Prepared for Megaloid Laboratories by Rob Cangiano
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Key to Abbreviations	ACGIH® = American Conference of Governmental Industrial Hygienists AIHA® = AIHA® Guideline Foundation HSDB® = Hazardous Substances Data Bank IARC = International Agency for Research on Cancer 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
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). 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).
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