

SAFETY DATA SHEET

SECTION 1

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: Ethyl 3-Ethoxypropionate
Product Description: 3-Ethoxypropionic Acid Ethyl Ester
Chemical Formula: C₇H₁₄O₃
Recommended Use: -

COMPANY IDENTIFICATION

Supplier: UNION PETROCHEMICAL PUBLIC COMPANY LIMITED
728 Union House Building, Baromratchonnani Rd.,
Bangbumru, Bangplad, Bangkok 10700
Supplier General Contact: +662 881 8288

This (M)SDS is a generic document with no country specific information included.

SECTION 2

HAZARDS IDENTIFICATION

Hazard classification:

Flammable liquid: Category 3

OSHA Specified Hazards: N/D

GHS LABEL ELEMENTS:

Pictogram:



Signal Word: Warning

Hazard Statements:

Flammable liquid and vapour May be harmful if swallowed.

Precautionary Statements:

Prevention: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep away from direct sun and UV exposure. Keep container tightly closed.

Response: Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against ignition by the static discharge and the spark. Wear protective gloves/eye protection/face protection. If on skin or hair: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell.

Disposal: Store in a well-ventilated place. Keep shady and cool. Dispose of contents/container through a waste management

Other hazard information: -



SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a substance/mixtures.

Hazardous Substance(s) or Complex Substance(s) required for disclosure

Name	CAS#	Concentration*
Ethyl 3-Ethoxypropionate	763-69-9	≥ 99.0%

SECTION 4 FIRST AID MEASURES

INHALATION

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

SKIN CONTACT

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

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/attention.

INGESTION

Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth

PROTECTION OF FIRST-AIDERS

A rescuer should wear personal protective equipment, such as rubber gloves and air- tight goggles.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Dry chemical, foam, carbon dioxide.

Inappropriate Extinguishing Media: Water (It may scatter and spread fire.)

FIRE FIGHTING

Special Protective Equipment for Fire-fighters: When extinguishing fire, be sure to wear personal protective equipment.

Special methods: Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

ENVIRONMENTAL PRECAUTIONS

Prevent product from entering drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP



Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

- Remove all sources of ignition.
- Fire-extinguishing devices should be prepared in case of a fire.
- Use spark-proof tools and explosion-proof equipment.
- Handling is performed in a well ventilated place.
- Wear suitable protective equipment.
- Prevent generation of vapor or mist.
- Keep away from heat/sparks/open flame/hot surfaces. -No smoking.
- Take measures to prevent the build up of electrostatic charge.
- Use explosion-proof equipment.
- Wash hands and face thoroughly after handling.
- Use a closed system if possible.
- Use a ventilation, local exhaust if vapor or aerosol will be generated.
- Avoid contact with skin, eyes and clothing.
- Confirm in advance if peroxides exist when operations involving heating such as distillation are carried out.
- Keep container tightly closed.
- Store in a cool, dark and well-ventilated place.
- Store away from incompatible materials such as oxidizing agents.

SECTION 7**HANDLING AND STORAGE****ADVICE ON SAFE HANDLING**

Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking.

Take measures to prevent the build up of electrostatic charge. Keep away from sunshine/UV exposure.

CONDITIONS FOR SAFE STORAGE

Store in cool place, and away from sunshine/UV exposure environment.

Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8**EXPOSURE CONTROLS / PERSONAL PROTECTION****ENGINEERING CONTROLS**

Install a closed system or local exhaust. Also install safety shower and eye bath.

PERSONAL PROTECTION

Respiratory Protection: Vapor respirator. Follow local and national regulations.

Hand Protection: Protective gloves.

Eye Protection: Safety glasses. A face-shield, if the situation requires.

Skin and body protection: Protective clothing. Protective boots, if the situation requires.

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

GENERAL INFORMATION

Physical State: Liquid

Form: Liquid

Color: Colorless – Almost colorless

Odour: Ester-like

Odour Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

pH: N/D

Freezing Point: -50°C

Boiling Point / Range: 169°C

Flash Point: 59°C

Evaporation Rate: 0.10

Flammability (Solid, Gas): N/D

Self-ignition: N/D

Flammable Limits (Approximate volume % in air): LEL: 1.05 UEL: N/D

Vapor Pressure: 0.2 kPa at 25°C

Vapor Density (Air = 1): N/D

Gravity Density: 948-953 kg/m³

Solubility(ies)

Solubility in Water: Slightly soluble

Partition coefficient (n-octanol/water): N/D

Autoignition Temperature: 377°C

Decomposition Temperature: (HPDTA) No exotherm to 400°C

Dynamic Viscosity: 1.30 mPa.s at 25°C

Kinematic Viscosity: 1.33 mm²/s at 20°C

Explosive properties: N/D

Oxidizing properties: N/D

Surface tension: 28.3 dynes/cm at 20°C

Molecular weight : N/D

SECTION 10

STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended storage conditions.

REACTIVITY: N/D

CONDITIONS TO AVOID: Heat, flames and sparks, Strong oxidizing agents, Strong bases

REACTION: Exposure to air.

INCOMPATIBLE MATERIALS: N/D

HAZARDOUS DECOMPOSITION PRODUCTS: N/D

POSSIBILITY OF HAZARDOUS REACTIONS: N/D

SECTION 11

TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 Oral (Rat): 5 g/kg

Skin corrosion/irritation

skn-rbt LD50:10 mL/kg

skn-rbt 500 mg/24H MLD

Serious eye damage/eye irritation

Not classified based on available information.

Germ cell mutagenicity

Carbon monoxide, Carbon dioxide

Carcinogenicity

Not classified based on available information.

IARC Not classified based on available information.

NTP Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

RTECS Number

UF3325000

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Ethyl 3-Ethoxypropionate:

Toxicity to fish : N/D

Toxicity to crustacea : N/D

Toxicity to algae/aquatic plants : N/D

Persistence and degradability

N/D

Bioaccumulative potential

N/D

Log Pow

1.35

Soil adsorption (Koc)

Mobility in soil

Henry's Law

N/D

SECTION 13

DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

SECTION 14

TRANSPORT INFORMATION

Hazards Class: 3: Flammable liquid.

UN-No: 3272

Proper shipping name: Esters, n.o.s.

Packing group: III



SECTION 15

REGULATORY INFORMATION

Safe management ordinance of dangerous chemical product (State Council announces on January 26, 2002): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

SECTION 16

OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association

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