

Version: 4.0

Revision date: 17/04/2024

Product Name: NATURAL ETHYL ISOBUTYRATE

Section 1: Identification of the Substance/Mixture and of the Company

Product identifier

Product Name	NATURAL ETHYL ISOBUTYRATE
Product Number	771-3042

Relevant identified use of the substance/mixture and uses advised against

Use of Substance/Mixture	Flavor agent.
--------------------------	---------------

Details of supplier of the SDS

Company	O'Laughlin Corporation Limited
Address	Suite 1704 Chinachem Tower 34 – 37 Connaught Road, Central, Hong Kong
Telephone	(852) 2527 1031
Fax	(852) 2529 0231
Website	www.olaughlinco.com

Emergency telephone number

(852) 2527 1031

Section 2: Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquids, Category1, H225

Skin corrosion/ irritation, Category2, H315

Serious eye damage/ eye irritation, Category2A, H319

Labelling elements

Labelling according to Regulation (EC) No 1272/2008



Pictogram

Signal word **Danger**

Hazard Statement

H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

H319 - Causes serious eye damage.

Precautionary statement

Prevention

P210 - Keep away from heat/ sparks/ open flames/ hot surfaces. - No smoking.

P233 - Keep container tightly closed.

P240 - Ground/ bond container and receiving equipment.

P241 - Use explosion-proof electrical/ ventilating/ lighting equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

Version: 4.0

Revision date: 17/04/2024

Product Name: NATURAL ETHYL ISOBUTYRATE

P264 - Wash skin thoroughly after handling.

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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

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

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

P363 - Wash contaminated clothing before reuse

P370 + P378 - In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Storage

P403+P235 - Store in a well-ventilated place. Keep cool.

Disposal

P501 - Dispose of contents/container in accordance with local/ regional/ national/ international regulations.

Hazards Not Otherwise Classified No information available.

Supplemental Hazard Information No information available

Section 3: Composition/information on ingredients

Substance Name	NATURAL ETHYL ISOBUTYRATE
CAS Number	97-62-1
EC Number	202-595-4
% (w/w)	100

Remarks: The rest unspecified ingredients are impurities, and they are not hazard.

Section 4: First Aid Measures

Description of first aid measures

Skin contact Wash off with soap and plenty of water. Consult a physician.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Inhalation If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

General information

Consult a physician. Show this safety data sheet to the doctor in attendance.

Indication of any immediate medical and special treatment needed: No information available.

Section 5: Fire-fighting Measures

Flammable properties

Flash point 13°C

Firefighting

Version: 4.0

Revision date: 17/04/2024

Product Name: NATURAL ETHYL ISOBUTYRATE

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguish media

Do not use a solid water stream as it may scatter and spread fire.

Protective equipment and precautions for firefighters

Specific hazards during firefighting

Carbon oxides. Fire may produce irritating, corrosive and/or toxic gases.

Specific protective equipment for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighter's protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full-face piece operated in the positive pressure demand mode when fighting fires.

Specific methods

Use water spray to cool unopened containers

General fire hazards

Static charges generated by emptying package in or near flammable vapor may cause flash fire.

Section 6: Accidental Release Measures

Personal precautions

Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.

Environmental precautions

Keep away from drains, surface and groundwater and soil.

Methods for cleaning up

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Do not allow material to contaminate ground water system. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste.

Section 7: Handling and Storage

Storage

Do not handle or store near an open flame, heat or other sources of ignition. 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.

Handling

Avoid formation of aerosol. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure.

Specific end use(s)

No information available.

Section 8: Exposure Controls/Personal Protection

Version: 4.0

Revision date: 17/04/2024

Product Name: NATURAL ETHYL ISOBUTYRATE

Control parameters: Components with workplace control parameters.

Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand protection Type of gloves recommended: Butyl rubber. Minimum breakthrough time/ gloves: 480 min. Minimum thickness/ gloves 0.11 mm.

Body protection Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards Wear suitable protective clothing to prevent heat.

Environmental exposure controls Avoid discharge into the environment. According to local regulations, Federal and official regulations.

Industrial hygiene: When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/ or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9: Physical and Chemical Properties

Appearance	Colorless liquid
Odor	Sweet, ethereal and fruity with pungent, alcoholic, fusel and rummy nuances
Flash point	13 °C
Specific Gravity	0.862 - 0.868 at 25 °C
Acid Value	0.5mg KOH/g max.
Refractive Index	1.385 - 1.391 at 20 °C
Solubility (ies)	Slightly soluble in water, soluble in alcohol ether, etc.
Auto ignition temperature	No information available.
Viscosity	No information available.

Section 10: Stability and Reactivity

Reactivity	Stable under normal temperatures and pressures.
Chemical stability	Stable at room temperature in closed containers under normal storage and handling conditions.
Possibility of hazardous reactions	Incompatible materials, heat, sparks, flames.

Version: 4.0

Revision date: 17/04/2024

Product Name: NATURAL ETHYL ISOBUTYRATE

Conditions to avoid	Strong oxidizing agents, strong bases, mineral acids.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No information available.

Section 11: Toxicological Information

Information on likely routes of exposure:

Inhalation	May cause irritation to the respiratory system.
Skin contact	Causes skin irritation.
Eye contact	No information available.
Ingestion	Harmful if swallowed.

Information on toxicological effects:

Oral/Parenteral Toxicity	Acute, LD50 Rat, > 5000mg/kg
Dermal Toxicity	Acute, LD50 Rabbit, > 5000mg/kg
Inhalation Toxicity	Acute, LD50 Mouse, > 5000mg/kg
Germ cell mutagenicity	No information available.
Carcinogenicity	
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
IARC	No information available.
ACGIH	No information available.
NTP	No information available.
Reproductive toxicity	No information available.
TOST - single exposure	No information available.
TOST - repeated exposure	No information available.
Aspiration hazard	No information available.

Section 12: Ecological Information

Eco toxicity	No information available.
Persistence and degradability	No information available.
Bio accumulative potential	No information available.
Mobility in soil	No information available.
Results of PBT&vPvB assessment	No information available.
Other adverse effects	No information available.

Section 13: Disposal Considerations

Disposal instructions	Do not discharge into drains, water course or onto the ground. Do not allow this material to drain into sewers/ water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous water code	No information available.



Safety Data Sheet

Version: 4.0

Revision date: 17/04/2024

Product Name: NATURAL ETHYL ISOBUTYRATE

Waste from residues/unused products Empty containers or liner may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied

Section 14: Transport Information

	ADN	ADR	RID	DOT BULK	DOT NON-BULK	IATA	IMDG
UN Number	2385						
Shipping Name	ETHYL ISOBUTYRATE						
Hazard Class	3						
Packing group	II						
Environmental Hazards	No						

Section 15: Regulatory Information

US federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA Hazards Substance List (40 CFR 302.4)	Not listed
OSHA Specifically Regulated Substance (29 CFR 1910.1001-1050)	Not listed
SARA 302 Extremely hazardous substances	Not listed
SARA 311/312 Hazard Chemical	Not listed
SARA 313 (TRI reporting)	Not regulated

Other federal regulations

CAA Section 112 Hazardous Air Pollutant List	Not regulated
CAA Section 112 (r) Accidental Release Prevention (40 CFR 68.130)	Not regulated
Safe Drinking Water Act (SDWA)	Not regulated

US State regulations

US. Massachusetts RTK-Substance List	Not listed
US. New Jersey Worker and Community Right-to-Know Act	Not regulated
US. Pennsylvania Worker and Community Right-to-Know Law	Not listed
US. Rhode Island RTK	Not regulated
US. California Proposition 65	Not listed

International Inventories

Country or region	Inventory name	On inventory (yes/no)
Australia	AICS	Yes
Canada	DSL	Yes
Canada	NDSL	No
China	IECSC	Yes



Safety Data Sheet

Version: 4.0

Revision date: 17/04/2024

Product Name: NATURAL ETHYL ISOBUTYRATE

Europe	EINECS	Yes
Europe	ELINCS	No
Japan	ENCS	Yes
Korea	ECL	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	PICCS	Yes
US and Puerto Rico	TSCA	Yes

Section 16: Other Information

Revision Information

Date of this version: Apr 17, 2024

Declaration to Reader

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. O'Laughlin Corporation Limited, shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.