



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE	A0237
PRODUCT NAME	LIME TERPENES
SUPPLIER	Shanghai M & U International Trade Co., Ltd. Rm 1717, No 598 North NuJiang Road 200333 Shanghai, China +86-21-32515501 32515502 sales@mu-intel.com

FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)

2. HAZARD IDENTIFICATION:

POTENTIAL HEALTH EFFECTS

PRIMARY ROUTES OF EXPOSURE

Eyes, Skin

EFFECTS OF EXPOSURE

May be irritating to the skin and eyes

Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort. Vapors or mist, in excess of permissible concentration, or in unusually high concentration generated from spraying, heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the throat and nose, headache, nausea and drowsiness

3. COMPOSITION AND INFORMATION ON INGREDIENTS:

SYNONYM	oil lime terpenes
FORMULA	N/A
MOLECULAR WEIGHT	N/A
CAS-No	EC-No
68917-71-5	N/A

4. FIRST-AID GUIDE:

INHALATION EXPOSURE

If headache, irritation, nausea, or drowsiness occurs, remove to fresh air and call a physician.

EYE CONTACT

Remove contact lenses. Flush eyes with cool water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eyes and lids. Call a physician

SKIN CONTACT

Remove contaminated clothing. Wash skin with mild soap and water. If irritation or any other symptoms occur, call a physician

INGESTION

If patient is conscious and can swallow, administer water and call a physician or poison control center immediately. Do not induce vomiting

OTHER INSTRUCTIONS

None

5. FIRE-FIGHTING GUIDE:

FLASH POINT (CC, F) 118

RECOMMENDED FIRE EXTINGUISHING MEDIA

Carbon-dioxide, foam, or dry chemicals

RECOMMENDED PROTECTIVE EQUIPMENT FOR FIREFIGHTERS AND SPECIAL PROCEDURES

Use of self-contained breathing apparatus with full face piece operated in the positive pressure demand mode when fighting fires. Protective clothing is recommended. Prevent contact with skin and eyes. Cool fire exposed containers

UNUSUAL FIRE AND EXPLOSION HAZARDS

Combustible liquid, avoid heat, sparks, and open flames

HAZARDOUS COMBUSTION PRODUCTS

Carbon dioxide, carbon monoxide, fumes

HAZARDOUS POLYMERIZATIONS

None occurs

6. ACCIDENTAL RELEASE GUIDE:

PROCEDURES IN CASE OF ACCIDENTAL RELEASE, BREAKAGE, OR LEAKAGE

Ventilate area. Avoid breathing vapor. Avoid contact with skin, eyes and clothing. Pressure demand air supplied respirators should always be worn when the airborne concentration of the contaminant or oxygen is unknown. Otherwise, wear NIOSH approved respiratory protection and other personal protective equipment as appropriate for the potential exposure hazard. Remove any sources of flame or sparks. Contain spill if possible. Absorb spill with vermiculite or other suitable absorbent material. Shovel up material and place in approved disposal container. Dispose of in accordance with current local, state, and federal laws and regulations.

7. HANDLING AND STORAGE:

PRECAUTIONS TO BE TAKEN IN HANDLING

Avoid breathing vapors. Avoid contact with skin, eyes and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling

STORAGE

Keep tightly closed. Store in cool dry place

8. EXPOSURE AND PERSONAL PROTECTION:

THRESHOLD LIMIT VALUE (TLV)

Not established

OSHA PERMISSIBLE EXPOSURE LIMIT (PEL)

Not established

RESPIRATORY PROTECTION

Usually not required

VENTILATION

Mechanical (General) - meeting ACGIH standards

PROTECTIVE GLOVES

Rubber gloves

EYE PROTECTION

Safety glasses

OTHER PROTECTIVE EQUIPMENT

Safety shower, eye wash

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE

Colorless to pale yellow liquid

ODOR DESCRIPTION

Characteristic lime odor

BOILING POINT:

not applicable

VAPOR PRESSURE (mm Hg @ 20°C)

not found

VAPOR DENSITY (AIR = 1)

Not found

SPECIFIC GRAVITY @ 25 C (WATER = 1)

0.85

SOLUBILITY IN WATER

Insoluble

10. STABILITY AND REACTIVITY:

CONDITIONS/MATERIALS TO AVOID

Normally stable under proper conditions. Avoid excessive heat, open flames, or other sources of ignition. Avoid contact with strong acids, alkalies, and/or oxidizing agents

11. TOXICOLOGICAL INFORMATION:

NO DATA AVAILABLE

12. ECOLOGICAL INFORMATION:

NO DATA AVAILABLE

13. DISPOSAL RECOMMENDATIONS:

WASTE DISPOSAL METHOD

Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste

14. TRANSPORTATION INFORMATION:

TRANSPORTATION BY GROUND

NOT REGULATED

TRANSPORTATION BY AIR OR VESSEL

PROPER SHIPPING NAME: TERPENE HYDROCARBONS, N.O.S. (LIME TERPENES)

HAZARD CLASS: 3

IDENTIFICATION NUMBER: UN2319

PACKING GROUP: III

PRIMARY LABEL REQUIRED: FLAMMABLE LIQUID

PRIMARY PLACARD REQUIRED: FLAMMABLE LIQUID

STORAGE SEGREGATION

Usual precautions for combustible liquids

15. REGULATORY INFORMATION:

This substance contains no materials subject to the reporting requirements of SARA TITLE III SECTION 313

Containers should be either reconditioned by CERTIFIED firms or properly disposed of by APPROVED firms. Disposal of containers should be in accordance with applicable laws and regulations. "Empty" drums should not be given to individuals. Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive material. Cutting or welding of empty containers may cause fire, explosion, or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep containers closed and drum bungs in place.

16. OTHER INFORMATION:

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