

ULTRATHENE® UE635000

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ULTRATHENE® UE635000

Number: 000000000000506450

Chemical characterization: Olefinic Polymer

CAS-No.: 24937-78-8

Chemical Name: Vinyl acetate polymer with ethene

Synonyms: Polyethylene, Ultrathene (TM), EVA Copolymer

Use category: Adhesives.

Company Address

Equistar Chemicals, LP
One Houston Center, Suite 700
1221 McKinney St.
P.O. Box 2583
Houston Texas 77252-2583

Company Telephone

Customer Service
888 777-0232
Product Safety
800 700-0946
product.safety@lyondellbasell.com

Emergency telephone

CHEMTREC USA 800-424-9300
EQUISTAR 800-245-4532

2. HAZARDS IDENTIFICATION

Emergency Overview

This material is NOT HAZARDOUS by OSHA Hazard Communication definition. Trade secret chemical identities will be revealed to treating physicians in an emergency, or to purchasers after execution of a secrecy agreement.

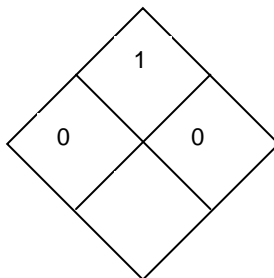
Signal Word

CAUTION.

Hazards

Dust may form explosive mixtures with air. Molten polymer may cause thermal burns. At process temperatures irritating fumes may be produced.

NFPA®



HMIS®

Health		0
Flammability		1
Physical Hazard		0

Physical state

solid

Color

translucent to white

Odor

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Odor

Faint, mild hydrocarbon odor.

Odor Threshold

No Data Available.

Potential health effects
Routes of exposure

Eye. Inhalation. Skin.

Acute effects

Hot material may cause thermal burns. At process temperatures, irritating fumes may cause soreness in the nose and throat; coughing may result. Mechanical irritation is possible.

- *Vinyl acetate polymer with ethene 24937-78-8*

Hot material may cause thermal burns. At process temperatures, irritating fumes may cause soreness in the nose and throat; coughing may result.

- *Additives*

No known acute health effects.

Skin

Molten polymer may cause thermal burns.

Inhalation

Inhalation of process fumes and vapors may cause soreness in the nose and throat and coughing. "Nuisance dust" such as polymer dust typically exhibit no significant health effect when they are reasonably controlled. Exposure to high concentrations of dust may cause slight irritation by mechanical action.

Eyes

Mechanical irritation is possible.

Ingestion

Ingestion not a likely route of exposure.

Chronic effects

See component summary.

- *Vinyl acetate polymer with ethene 24937-78-8*

No known chronic health effects.

- *Additives*

No known chronic health effects.

Aggravated Medical Condition

No known conditions are aggravated by this material.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS-No.</u>	<u>EC-No.</u>	<u>Weight %</u>
Vinyl acetate polymer with ethene	24937-78-8	Monomers are EINECS listed 429-840-1	98.0 <= 100.0
Additives	Mixture	Additives are EINECS listed	<= 2.0
Maleic Anhydride (Residual)	108-31-6	203-571-6	<= 0.05

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Typical composition

4. FIRST AID MEASURES

General advice

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. For specific information refer to the Emergency Overview in Section 2 of this MSDS.

Skin

If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and polymer. Do not attempt to peel polymer from skin. Obtain immediate emergency medical attention if burn is deep or extensive.

Inhalation

If symptoms are experienced, move victim to fresh air. Remove person to fresh air. If signs/symptoms continue, get medical attention.

Eyes

Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists.

Ingestion

Adverse health effects due to ingestion are not anticipated.

Notes to physician

There is no specific antidote; treatment of overexposure should be directed at control of symptoms and the clinical condition of the patient. Treat burns or allergic reactions conventionally after decontamination.

5. FIRE-FIGHTING MEASURES

Flammable properties

Classification

Not Classified. Polymer will burn but does not easily ignite.

Flash point

No Data Available.

Autoignition temperature

343 °C (649.4 °F)

Lower explosion limit

Not applicable.

Upper explosion limit

Not applicable.

Extinguishing Media

Suitable extinguishing media

SMALL FIRE: Use dry chemical, CO₂, water spray or regular foam LARGE FIRES: Use large quantities of water spray.

Protective equipment and precautions for firefighters

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Protective equipment and precautions for firefighters

Wear an approved positive pressure self-contained breathing apparatus and firefighter turnout gear. Wear an approved positive pressure self-contained breathing apparatus and firefighter turnout gear.

Precautions for fire-fighting

Polyolefin dust particles in the atmosphere are combustible and may be explosive. Keep away from heat and sources of ignition.

Hazardous combustion products

Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.

6. ACCIDENTAL RELEASE MEASURES

Spills and leaks

Avoid generating dust. Potential dust explosion hazard. Use only non-sparking tools. Material creates dangerous slipping hazard on hard surfaces. Pick up and retain for recycle or disposal.

7. HANDLING AND STORAGE

Handling

Keep away from heat and sources of ignition. Use with adequate ventilation. Spilled material can make walking hazardous, potentially causing falls and serious injury. After handling, always wash hands thoroughly with soap and water.

Storage

Keep container dry. Store away from excessive heat and away from strong oxidizing agents. Keep container closed to prevent contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Ventillate area to prevent accumulation of dust and fumes. Ventillate area to prevent accumulation of dust and fumes.

Personal protective equipment

Inhalation

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Use appropriate respiratory protection where atmosphere exceeds recommended limits.

Skin

Use chemical resistant gloves appropriate to conditions of use. Wear heat protective gloves and clothing if there is a potential for contact with heated material. Wear suitable protective clothing. Wear heat protective gloves and clothing if there is a potential for contact with heated material.

Eyes

Dust service goggles should be worn to prevent mechanical injury or other irritation to eyes due to airborne particles which may result from handling this product.

Remarks

Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use. Use good personal hygiene practices. Wash

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Remarks

hands before eating, drinking, smoking, or using toilet facilities. Take off contaminated clothing and wash before reuse. Material spilled on hard surface can be a serious slipping/falling hazard. Use care in walking on spilled material.

Occupational Exposure Limits

Component	Source	Type:	Value	Note
Maleic Anhydride (Residual)	US (ACGIH)	TWA	0.1 ppm	None.
	US (OSHA)	TWA	0.25 ppm 1 mg/m3	None.
	NIOSH	IDLH	10 mg/m3	None.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: solid translucent, to, white

Odor: Faint, mild hydrocarbon odor.

Odor Threshold: No Data Available.

pH: Not applicable.

Boiling point/boiling range: Not applicable.

Melting/freezing point: 58 - 112 °C (136.4 - 233.6 °F)

Flash point: No Data Available.

Autoignition temperature: 343 °C (649.4 °F)

Flammability: Not Classified. Polymer will burn but does not easily ignite.

Lower explosion limit: Not applicable.

Upper explosion limit: Not applicable.

Explosive properties: No Data Available.

Oxidizing properties: No Data Available.

Vapor pressure: Not applicable.

Evaporation rate: Not applicable.

Relative density: 0.92 - 0.98 (water=1)

Relative vapor density: Not applicable.

Viscosity: Not applicable.

Water solubility: Insoluble.

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Partition coefficient: n-octanol/water: No Data Available.

Other physico-chemical properties: No additional information available.

10. STABILITY AND REACTIVITY

Chemical stability

The product is stable.

Conditions to avoid

Avoid contact with strong oxidizers, excessive heat, sparks or open flame.

Materials to avoid

Material may be softened by some hydrocarbons.

Hazardous decomposition products

Not expected to decompose under normal conditions.

Hazardous polymerization

Will not occur.

Reactions with Air and Water

Does not react with air, water or other common materials.

11. TOXICOLOGICAL INFORMATION

Product information

Product Summary

See component summary.

COMPONENT INFORMATION

- *Vinyl acetate polymer with ethene* 24937-78-8

Acute effects

Inhalation

Rats inhaling polyethylene dust developed mild inflammatory changes in the lungs.

Ingestion

No adverse health effects were noted on the digestive system of test animals when fed up to 20% polyethylene.

Irritation

Skin

No adverse effects are expected.

Repeated dose toxicity

Subchronic, 50-90 day, feeding studies conducted on rats, dogs and swine showed no effects from dietary levels of 1-20% powdered and shredded polyethylene.

Reproductive effects

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Reproductive effects

Not expected to occur.

Developmental Toxicity

Not expected to occur.

Carcinogenicity

Not expected to occur.

- *Additives*

Repeated dose toxicity

No known chronic health effects.

Carcinogenicity

Not listed by IARC, NTP, OSHA or EPA.

- *Maleic Anhydride (Residual)* 108-31-6

12. ECOLOGICAL INFORMATION

Product information

Ecotoxicity

See component summary.

Environmental fate and pathways

See component summary.

COMPONENT INFORMATION

- *Vinyl acetate polymer with ethene* 24937-78-8

Ecotoxicity

Ecotoxicity is expected to be minimal based on the low water solubility of polymers.

Environmental fate and pathways

No data available.

Persistence and degradability

Biodegradation: This material is expected to be resistant to biodegradation.

Bioaccumulation: Not expected to occur.

- *Additives*

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Ecotoxicity

No Data Available.

Environmental fate and pathways

No Data Available.

- *Maleic Anhydride (Residual)* 108-31-6

Ecotoxicity

Environmental fate and pathways

13. DISPOSAL CONSIDERATIONS

Dispose of as hazardous waste in compliance with local and national regulations. Comply with federal, state, or local regulations for disposal. Recycle if possible.

14. TRANSPORT INFORMATION

Special Provisions

If you reformulate or further process this material, you should consider re-evaluation of the regulatory status of the components listed in the composition section of this sheet, based on final composition of your product.

Proper shipping name POLYETHYLENE, OTHER THAN LIQUID, not regulated

15. REGULATORY INFORMATION

Notification status

All ingredients are on the following inventories or are exempted from listing

Country	Notification
Australia	AICS
Canada	DSL
China	IECS
European Union	EINECS
Japan	ENCS/ISHL
Korea	ECL
Philippines	PICCS
United States of America	TSCA

Contact product.safety@lyondellbasell.com for additional global inventory information.

If identified components of this product are listed under the TSCA 12(b) Export Notification rule, they will be listed below.

SARA 302/304

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Component

Maleic Anhydride (Residual)

TPQ

RQ

5000 lbs

SARA 311/312

Based upon available information, this material is not classified as a health and/or physical hazard according to Section 311 & 312.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the De Minimis reporting levels established by SARA Title III, Section 313 and 40 CFR 372.

Component

Maleic Anhydride (Residual)

Reporting Threshold

1.0%

State Reporting

This product contains no known chemicals regulated by California's Proposition 65.

This product contains the following chemicals regulated by New Jersey's Worker and Community Right to Know Act:

108-31-6 Maleic Anhydride (Residual)

This product contains the following chemicals regulated by Massachusetts' Right to Know Law:

108-31-6 Maleic Anhydride (Residual)

This product contains the following chemicals regulated by Pennsylvania's Right to Know Act:

108-31-6 Maleic Anhydride (Residual)

16. OTHER INFORMATION

Material safety datasheet sections which have been updated:

Last revision: Administrative data clean up. November 3 2010

Disclaimer

CAUTION DO NOT USE EQUISTAR CHEMICALS, LP MATERIALS IN APPLICATIONS INVOLVING IMPLANTATION WITHIN THE BODY; DIRECT OR INDIRECT CONTACT WITH THE BLOOD PATHWAY; CONTACT WITH BONE, TISSUE, TISSUE FLUID, OR BLOOD; OR PROLONGED CONTACT WITH MUCOUS MEMBRANES. EQUISTAR CHEMICALS, LP MATERIALS ARE NOT DESIGNED OR MANUFACTURED FOR USE IN IMPLANTATION IN THE HUMAN BODY OR IN CONTACT WITH INTERNAL BODY FLUIDS OR TISSUES. EQUISTAR CHEMICALS, LP WILL NOT PROVIDE TO CUSTOMERS MAKING DEVICES FOR SUCH APPLICATIONS ANY NOTICE, CERTIFICATION OR INFORMATION NECESSARY FOR SUCH MEDICAL DEVICE USE REQUIRED BY FDA REGULATION OR ANY OTHER STATUTE. EQUISTAR CHEMICALS, LP MAKES NO REPRESENTATION, PROMISE, EXPRESS WARRANTY OR IMPLIED WARRANTY CONCERNING THE SUITABILITY OF THESE MATERIALS FOR USE IN IMPLANTATION IN THE HUMAN BODY OR IN CONTACT WITH INTERNAL BODY TISSUES OR FLUIDS.

Information is correct to the best of our knowledge at the date of the MSDS publication.

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Numerical Data Presentation

The presentation of numerical data, such as that used for physical and chemical properties and toxicological values, is expressed using a comma (,) to separate digits into groups of three and a period (.) as the decimal marker. For example, 1,234.56 mg/kg = 1 234,56 mg/kg.

Language Translations

This document may be available in languages other than English.

End of Material Safety Data Sheet