



台灣塑膠工業股份有限公司
Formosa Plastics Corporation

Formosa Plastics Corporation

Polyolefin Division

Safety Data Sheet

1. PRODUCT IDENTIFICATION

Material identity: TAISOX Linear Low Density Polyethylene

3210, 3214, 3220, 3224, 3224D, 3224L, 3224S, 3225, 3225W, 3228, 3440,
3450, 3460, 3470, 3490, 3830U, 3840, 3840U

Material No.: TC-1060

Manufacture Name: Formosa Plastics Corporation, Polyolefin Division

Mailiao Plant: Formosa Industrial Park No.1, Mailiao, Yunlin County, Taiwan, R.O.C.

Emergency Contact: (TEL) +886-5-6811180, (Fax) +886-5-6811122

2. HAZARD INDICATION

Hazard Classification

Non-hazardous substance or mixture

According to (EC) No 1272/2008 Tillering: Not classified as dangerous

According to GHS: Not classified as dangerous

Primary Route(s) of Exposure

Inhalation, Ingestion, Eye, Skin Contact

Potential Health Effects

● Eye Contact

No significant irritation expected other than possible mechanical irritation. Heated material can cause thermal burns. When heated to decomposition, it emits acrid smoke and irritating fumes.

● Skin Contact

No significant irritation expected other than possible mechanical irritation. Heated material can cause thermal burns.

● Inhalation

Exposure to airborne concentrations well above the recommended exposure limits may cause irritation of the nose, throat, and lungs. If heated to more than 300°C, the product may form vapors or fumes which could cause irritation of the respiratory tract, coughing, and shortness of breath.

● Ingestion

No significant health hazards identified.

3. COMPOSITION



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Technical name: Linear Low Density Polyethylene

Similar name: Ethylene Polymer, LLDPE

Ingredient percent(%):LLDPE≥99.2%, Others≤0.8%

Chemical Abstracts Number (CAS No.): 25087-34-7

Symbol of the basic polymer against standard ISO 1043-1: PE-LLD

Dangerous components: N/A

4. FIRST AID MEASURES

- Eye Contact

No significant irritation expected other than possible mechanical irritation. Heated material can cause thermal burns. When heated to decomposition, it emits acrid smoke and irritating fumes.

- Skin Contact

No significant irritation expected other than possible mechanical irritation. Heated material can cause thermal burns.

- Inhalation

Exposure to airborne concentrations well above the recommended exposure limits may cause irritation of the nose, throat, and lungs. If heated to more than 300°C, the product may form vapors or fumes which could cause irritation of the respiratory tract, coughing, and shortness of breath.

- Ingestion

No significant health hazards identified.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water, Water fog, CO₂, Foam or dry extinguishers

Extinguishing Media to be avoided: NONE

Combustion products: Carbon dioxide, water. In case of incomplete combustion: carbon monoxide, hydrocarbons, aldehydes, ketones and acetic acid may be developed.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions

Restrict access to keep out unauthorized or unprotected personnel. Wear appropriate personal protective equipment during all clean-up activities. Avoid inhalation and direct contact.

- Environmental Precautions

Keep spilled material away from heat, sparks and open flames. Ensure adequate ventilation.



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● Methods for Clean-Up

Collect spilled material using a method that minimizes dust generation (e.g., wet methods, HEPA vacuum). Place waste in an appropriate container for disposal. Use care during clean-up to avoid exposure to the material and injury from broken containers.

7. HANDLING AND STORAGE

● Handling

During the processing of the material, avoid inhalation of fumes, or powders, by providing good ventilation of the workroom and, if necessary, they have to be trapped by intake in an effective manner. If these measure are taken, traces of aldehydes or ketones which may arise during the process, will remain under the TLV/TWA value. Avoid dispersion of dust in air to reduce potential for ignition or explosions.

● Storage

Out of direct sun, in well ventilated, cool and dry places. For fire precautions, Equipment must be earthed, to avoid static electric charges. Any contact with flame or hot surface must be avoided.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

● Engineering Control

If user operations generate dust or fumes, ventilate area to prevent accumulation.

● Eye Protection

Safety glasses

● Respiratory Protection

None required in normal use of product. NIOSH approved dust mask recommended if dusty conditions exist.

● Hygiene Procedures

Minimize contact with skin. Do not eat, drink, or smoke in work area. Wash hands thoroughly after handling, especially before eating, drinking, smoking, chewing, or using restroom facility. Dusted clothing and shoes should be thoroughly cleaned before reuse.

9. Physical and Chemical Properties/ Characteristics

Appearance: Solid	Form: Pellet
Color: Translucent white	Odor: None
pH value: N/A	Boiling Point/ Boiling Range: N/A
Decomposition Temperature: >400°C	Flash Point: > 300°C (> 570°F) Test Method: ☐ Open Cup ☒ Close Cup
Auto-ignition Temperature: ca.340°C	Exposure Limits: N/A



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Vapor Pressure: N/A (Below) mmHg@20°C	Vapor Density: N/A (Air=1.0)
Specific Gravity: 0.915-0.938 g/cm ³	Solubility in Water: negligible
Melting point/ Freezing point: 119-128°C	Volatility: N/A
n-octanol/water partition coefficient (Kow): N/A	

10. STABILITY AND REACTIVITY

- Stability

Stable and inner at ordinary temperature.

- Condition to Avoid

Strong oxidizers and excessive heat.

- Hazardous Decomposition Products

Burning can produce carbon monoxide and/or carbon dioxide and other organic vapors.

- Hazardous Polymerization

Under normal conditions of storage and use, hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

No toxicology data available.

Exposures limits for the monomer have not been fixed. Avoid exposure to fume, eventually developed during the process, by intake and/or efficient ventilation of the working rooms.

TWA(ACGIH)for dust = 5 mg/m³

12. ECOLOGICAL INFORMATION

- Eco toxicity: Not biodegradable, but can be recycled using suitable technologies.

- Persistence and degradability: Very slowly degradation by solar UV irradiation.

- Bio accumulative potential: No data available.

- Mobility in soil: No data available.

- Other adverse effects: No data available.

13. DISPOSAL INFORMATION

Disposal must be done in accordance with existing regulations. Landfilling and incineration can be considered in most cases suitable. Recycling is possible by melting and pelletizing.

14. Transport Information

Not regulated as hazardous for shipment, unless noted below, under current transportation guidelines.



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- DOT: Not Regulated for Land Transport.
- TDG: Not Regulated for Land Transport.
- IMDG: Not Regulated for Sea Transport.
- IATA: Not Regulated for Air Transport.

On loading and unloading, equipment must be earthed to avoid static electric charges.

15. Regulation Information

USA-TSCA
Canada-DSL
Europe-EINECS are exempt from the listings, all monomers are listed.
Australia-AICS
Korea-ECL
Philippines-PICCS
China-Inventory of Existing Chemical Substances

16. Other Information

The information provided is given in good faith and is based on our actual knowledge.

This is not a technical sheet for use of the product.

This sheet does not exempt the user from knowing and applying all the relevant regulations and from taking all the relevant safety precautions.

Producer	Polyolefin Division, Formosa Plastics Corporation
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SDS prepared by	Lu Wei Ming (Engineer)
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