



Linear Low Density Polyethylene HF1832

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Trade name	Linear Low Density Polyethylene HF1832		
Synonyms	hLLDPE, Polyethylene, Polyethylene Copolymer with 1-Hexene, ethylene alpha olefin copolymer, HF1832X, HF1832 2Q, HF1832X 2Q		
Use	Flexible packaging, Raw material for industry		
Company	Sasol Chemicals (USA) LLC (an affiliate of Sasol Chemicals North America LLC)		
Address	12120 Wickchester Lane, Houston, TX 77079		
Telephone	CHEMTREC North America Transportation Emergency (24-hr)		(800) 424 9300
	CHEMTREC World Wide		(703) 527-3887
	Other Emergencies (24-hr)		(337) 494 5142
	SDS and Product Information (8:00am-4:30pm CST)		(281) 588 3491
	Health and Safety Information (7:30am-4:00pm CST)		(281) 588 3492
E-mail address	SasolElectronicSDS@us.sasol.com		

SECTION 2 HAZARDS IDENTIFICATION

OSHA/GHS Hazards Combustible dust

LABEL ELEMENTS

Hazard symbols None

Signal word Warning

Hazard statements May form combustible dust concentrations in air.

Precautionary statements

Prevention P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Prevent dust accumulation.
Contact with hot product will cause thermal burns.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
1-hexene, polymer with ethene	25213-02-9	>99.54



Linear Low Density Polyethylene HF1832

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

SECTION 4 FIRST AID MEASURES

- Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists. If burned by contact with hot material, flush skin immediately with large amounts of cold water. If possible, submerge area in cold water. No attempt should be made to detach polymer adhering to the skin or to remove clothing attached with molten material. Thermal burns require immediate medical attention.
- Inhalation** If heated to more than 300C, vapors or fumes may cause respiratory tract irritation, coughing, and shortness of breath. Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
- Ingestion** If swallowed, do not induce vomiting - seek medical advice. Risk of product entering the lungs on vomiting after ingestion.

SECTION 5 FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES

Fire/explosion Combustion products include carbon dioxide, carbon monoxide and possibly other unidentified organic compounds. Avoid dust formation. Dust may form explosive mixture in air. Molten product should not be exposed to water, as it causes violent steam explosions. NFPA Class IIIB combustible liquid.

Suitable extinguishing media Water spray or fog, foam, dry chemical, CO₂. Do NOT use water jet.

Protective equipment and precautions for firefighters Wear self-contained breathing apparatus and protective suit. Keep containers and surroundings cool with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up Remove all sources of ignition. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Fine dust dispersed in air may ignite. Pick up and arrange disposal without creating dust. Use spark-proof tools and explosion-proof equipment. Dispose of only in accordance with local, state, and federal regulations. Do not flush into surface water or sanitary sewer system.

Spill precautions Material can create slippery conditions.

Linear Low Density Polyethylene HF1832

SECTION 7 HANDLING AND STORAGE

Safe handling advice Ensure all equipment is electrically grounded before beginning transfer operations. Take measures to prevent the build up of electrostatic charge. Avoid dust formation. Light hydrocarbon vapours can build up in the headspace of tanks. These can cause flammability/explosion hazards even at temperatures below the normal flash point of the material. All equipment and lighting should be protected to prevent dust from coming into contact with ignition sources and hot surfaces. When handling hot material, wear heat resistant protective gloves, clothing and face shield capable of withstanding the temperature. Provide sufficient air exchange and/or exhaust in work rooms. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Keep away from heat and sources of ignition. Keep in a dry, cool and well-ventilated place. Store away from direct sunlight and UV light.

Storage/Transport pressure Ambient

Load/Unload temperature Ambient

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Ensure adequate ventilation, especially in confined areas. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.

PERSONAL PROTECTIVE EQUIPMENT

Eyes Wear as appropriate: Safety glasses with side-shields, Goggles

Skin Wear suitable protective clothing, gloves and eye/face protection.

Inhalation In case of insufficient ventilation wear suitable respiratory equipment. Use NIOSH approved respiratory protection.

EXPOSURE GUIDELINES

Zinc oxide (ZnO) ACGIH TLV (8-hour) 2 mg/m³ (respirable fraction)
ACGIH STEL (Short Term Exposure Limit) 10 mg/m³ (respirable fraction)
OSHA PEL (Permissible Exposure Limit) 5 mg/m³ (Fume)

OSHA regulates as Nuisance Dust (Nuisance Particulates).

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance solid;

Linear Low Density Polyethylene HF1832

Colour	white
Form	solid
Odour	odourless
Odour Threshold	No data available
Flash point	No data available
Flammability	Upper explosion limit: No data available Lower explosion limit: No data available
Boiling point/boiling range	No data available
Melting point/range	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Density	0.915 - 0.919 g/cm ³ @ 20 °C, 68 °F;
Relative density	No data available
Water solubility	negligible
Viscosity	No data available
Viscosity, dynamic	No data available
pH	No data available
Evaporation rate	No data available
Partition coefficient: n-octanol/water	No data available



Linear Low Density Polyethylene HF1832

SECTION 10 STABILITY AND REACTIVITY

Reactivity	Stable at normal ambient temperature and pressure.
Chemical stability	No decomposition if stored and applied as directed.
Conditions to avoid	Keep away from heat and sources of ignition.
Hazardous decomposition products	Acrolein Aldehydes Carbon oxides Formaldehyde organic vapors
Materials to avoid	Oxidizing agents
Hazardous polymerisation	None.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute dermal toxicity	No data available
Acute inhalation toxicity	No data available
Acute oral toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	Genotoxicity in vitro: No data available Genotoxicity in vivo: No data available Assessment Mutagenicity: No data available
Reproductive toxicity	Reproductive toxicity: No data available

Linear Low Density Polyethylene HF1832

Assessment Reproductive toxicity:

No data available

Teratogenicity:

No data available

Assessment teratogenicity:

No data available

STOT - single exposure No data available

STOT - repeated exposure No data available

Aspiration toxicity No data available

Carcinogenicity **Assessment carcinogenicity:**
Contains no ingredient listed as a carcinogen

SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity Aquatic toxicity is unlikely due to low solubility. Wildlife may ingest plastic pellets or bags which while not toxic, may physically block the digestive system which can cause death.

Toxicity to fish No data available

Toxicity to aquatic invertebrates No data available

Toxicity to algae No data available

Chronic toxicity to fish No data available

Chronic toxicity to aquatic invertebrates No data available

Biodegradation This material is not expected to be biodegradable.

Bioaccumulative potential No data available

Mobility in soil No data available

Other adverse effects No data available



Linear Low Density Polyethylene HF1832

SECTION 13 DISPOSAL CONSIDERATIONS

- Waste Code** Any unused product or empty containers may be disposed of as non-hazardous in accordance with state and federal requirements. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification. If the resulting material is determined to be hazardous, please dispose in accordance with state and federal (40 CFR 262) hazardous waste regulations.
- Disposal methods** Dispose of only in accordance with local, state, and federal regulations.
- Empty containers.** Empty containers and original plastic liners may contain product residue. Handling of empty containers and liners should be in a manner to minimize dust generation. Safe handling procedures as outlined in the SDS should be followed at all times. Consult the appropriate official for information regarding disposal requirements.

SECTION 14 TRANSPORT INFORMATION

DOT not regulated

IATA not regulated

IMDG not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks No data available

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA Inventory Listing

Components

1-hexene, polymer with ethene

CAS-No.

25213-02-9

All chemical substances in this product are either on the TSCA Active Inventory, or in compliance with the inventory.

SARA 302 Status

Components

CAS-No.

Weight percent

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Classification

Combustible dust

SARA 313 Chemical

Components

CAS-No.

Weight percent



Linear Low Density Polyethylene HF1832

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

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Components

none

Reportable Quantity**Weight percent**

INTERNATIONAL REGULATIONS

WHMIS Classification

Combustible dust

European Union

The product does not need to be labelled in accordance with EC directives or respective national laws.

Australia. Inventory of Chemical Substances (AICS)	Listed
Japan. Inventory of Existing and New Chemical Substances (ENCS)	Listed
Japan. ISHL - Inventory of Chemical Substances	Listed
Canada. Domestic Substances List (DSL) Inventory	Listed
Canada. Non-Domestic Substance Listing (NDSL)	Not listed
Philippines. Inventory of Chemicals / Chemical Substances (PICCS)	Listed
Korea. Existing Chemicals Inventory (KECI)	Listed
China. Inventory of Existing Chemical Substances (IECSC)	Listed
Mexico. National Inventory of Chemical Substances (INSQ)	Not listed
New Zealand. Inventory of Chemical Substances (NZIoC)	Listed
Switzerland. Inventory of Notified New Substances (CHINV)	Not listed
Taiwan. National Existing Chemical Inventory (NECI)	Listed

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

STATE REGULATIONS

California Prop. 65**Components**

none

CAS-No.

**Linear Low Density Polyethylene HF1832**

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

	<u>Health</u>	<u>Flammability</u>	<u>Physical Hazard/ Instability</u>
HMIS®	1	1	0
NFPA	1	1	0

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