



Low Density Polyethylene LF2220M

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

Trade name Low Density Polyethylene LF2220M
Synonyms LT660, Polyethylene, Low Density Polyethylene, LF2220M2Q, LT6602Q
Use Industrial use, Food contact
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

GHS Hazards

OSHA 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.
 Prevent dust accumulation.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
Polyethylene	9002-88-4	>99.5
Proprietary component	Confidential	
Proprietary component	Confidential	

Low Density Polyethylene LF2220M

Proprietary component
Proprietary component

Confidential
Confidential

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 with water and soap as a precaution. Get medical attention if irritation develops and persists. Cool skin rapidly with cold water after contact with molten material. 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** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.
- Ingestion** If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting without 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. Do not allow run-off from fire fighting to enter drains or water courses. Molten product should not be exposed to water, as it causes violent steam explosions. NFPA Class III B combustible liquid.

Suitable extinguishing media Dry chemical, Water mist, Foam, Carbon dioxide (CO₂)

Protective equipment and precautions for firefighters Wear self-contained breathing apparatus and protective suit.

Further information Keep containers and surroundings cool with water spray. Do not use a solid water stream as it may scatter and spread fire.

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. Use spark-proof tools and explosion-proof equipment. Do not flush into surface water or sanitary sewer system. Dispose of only in accordance with local, state, and federal regulations.

Low Density Polyethylene LF2220M

Spill precautions Material can create slippery conditions.

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. Dust can form an explosive mixture in air. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. All equipment and lighting should be protected to prevent dust from coming into contact with ignition sources and hot surfaces. 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. Tank headspaces should always be regarded as potentially flammable and all ignition sources should be avoided during use of tanks. 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. Keep away from heat and sources of ignition. Normal measures for preventive fire protection. Handle in accordance with good industrial hygiene and safety practice.

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: Goggles, Face-shield

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

Inhalation Use NIOSH approved respiratory protection.

EXPOSURE GUIDELINES

Nuisance Dust OSHA TWA 5 mg/m³ Respirable dust
OSHA TWA 15 mg/m³ Total dust
ACGIH TWA 10 mg/m³ inhalable dust
ACGIH TWA 3 mg/m³ Respirable dust

Contains no substances with occupational exposure limit values.

Low Density Polyethylene LF2220M

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	solid;
Colour	Clear to slightly hazy
Form	solid
Odour	Hydrocarbons
Odour Threshold	No data available
Flash point	> 340 °C, > 644 °F;
Flammability	Upper explosion limit: No data available Lower explosion limit: No data available
Boiling point/boiling range	No data available
Melting point/range	110 - 125 °C, 230 - 257 °F;
Auto-ignition temperature	approximately > 349 °C, > 660 °F;
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Density	0.91 - 0.94 g/cm ³
Specific gravity	No data available
Water solubility	insoluble
Viscosity	No data available
pH	No data available
Evaporation rate	No data available
Partition coefficient: n-octanol/water	No data available

Low Density Polyethylene LF2220M

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	None.
Hazardous decomposition products	Carbon oxides
Materials to avoid	Oxidizing agents
Hazardous polymerisation	None.

SECTION 11 TOXICOLOGICAL INFORMATION

Additional Remarks	Information given is based on data obtained from similar substances.
Acute dermal toxicity	No data available
Acute inhalation toxicity	No data available
Acute oral toxicity	LD50 Rat: > 2,000 mg/kg Test substance: polyethylene
Skin corrosion/irritation	Primary irritation (Rabbit): 0.2 (Max. score is 8.0.) Test substance: polyethylene
Serious eye damage/eye irritation	Primary irritation (Rabbit): 11.7 (Max. score is 110.) Test substance: polyethylene Mild eye irritation
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

Low Density Polyethylene LF2220M

Reproductive toxicity	Reproductive toxicity: No data available 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

Low Density Polyethylene LF2220M

Other adverse effects No data available

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 retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.

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

Polyethylene
 Proprietary component
 Proprietary component
 Proprietary component
 Proprietary component

CAS-No.

9002-88-4
 Confidential
 Confidential
 Confidential
 Confidential

SARA 302 Status

Components

CAS-No.

Weight percent

Low Density Polyethylene LF2220M

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

SARA 311/312 Classification

Non-hazardous substance

SARA 313 Chemical

Components

CAS-No.

Weight percent

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

Reportable Quantity

Weight percent

none

INTERNATIONAL REGULATIONS

WHMIS Classification

WHMIS hazardous composition: No ingredients are hazardous according to the CPR criteria.

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. Industrial Safety & Health Law (ISHL) Inventory	Listed
Canada. Domestic Substances List (DSL) Inventory	Listed
Canada. Non-Domestic Substance Listing (NDSL)	Not listed
Europe. Inventory of Existing Commercial Chemical Substances (EINECS) Listing	Listed
Product falls under the EU-polymer definition.	
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 Chemicals (NZIoC)	Listed
Switzerland. Inventory of Notified New Substances (CHINV)	Not listed
Taiwan. National Existing Chemical Inventory (NECI)	Listed



Low Density Polyethylene LF2220M

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

Silica

CAS-No.

7631-86-9

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

THE DATA AND INFORMATION CONTAINED HEREIN ARE BEING FURNISHED FOR INFORMATIONAL PURPOSES ONLY, UPON THE EXPRESS CONDITION THAT EACH CUSTOMER SHALL MAKE ITS OWN ASSESSMENT OF APPROPRIATE USE AND APPROPRIATE SHIPPING, TRANSFER AND STORAGE MATERIALS AND PROCEDURES FOR SASOL CHEMICALS (USA) LLC'S PRODUCTS. ALTHOUGH BASED ON INFORMATION SOURCES WHICH SASOL CHEMICALS (USA) LLC CONSIDERS ACCURATE AND RELIABLE, SASOL CHEMICALS (USA) LLC MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, REGARDING THE VALIDITY OF THIS INFORMATION, THE INFORMATION SOURCES UPON WHICH THE SAME ARE BASED, OR THE RESULTS TO BE OBTAINED, AND EXPRESSLY DISCLAIMS LIABILITIES FOR DAMAGES OR INJURIES RESULTING FROM THE USE THEREOF.
