



HD5208 FL

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

Trade name HD5208 FL
Synonyms HMW Bimodal High Density Polyethylene, Film Grade; HD5208 FL2Q; HD5208 FLX; HD5208 FLX2Q; HD5208 FLXEG; HD5208 FLXEG2Q
Use Industrial use, 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

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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.

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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

<u>Components</u>	<u>Exposure limit(s)</u>
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

PEL= Permissible Exposure Limits
 TLV= Threshold Limit Value
 EL= Excursion Limit

TWA= Time Weighted Average (8 hr.)
 STEL= Short Term Exposure Limit (15 min.)
 WEEL= Workplace Environmental Exposure Level

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	solid;
Colour	white
Form	pellets, flakes, Pastilles
Odour	odourless
Odour Threshold	No data available
Flash point	Not applicable
Flammability	Upper explosion limit: No data available Lower explosion limit: No data available
Boiling point/boiling range	No data available
Melting point/range	estimated 110 - 167 °C, 230 - 332.6 °F;
Auto-ignition temperature	approximately > 340 °C, > 644 °F;
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Density	0.92 - 0.97 g/cm ³ @ 22.7 °C, 73 °F;
Relative density	No data available
Water solubility	insoluble
Viscosity	No data available
pH	No data available
Evaporation rate	No data available

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Partition coefficient: n-octanol/water No data available

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

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 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

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Assessment Mutagenicity:

No data available

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



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Mobility in soil No data available

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 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

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

CAS-No.

25213-02-9

SARA 302 Status
Components
CAS-No.
Weight percent

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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**

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**

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)	Listed
New Zealand. Inventory of Chemical Substances (NZIoC)	Listed
Switzerland. Inventory of Notified New Substances (CHINV)	Listed
Taiwan. National Existing Chemical Inventory (NECI)	Listed

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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.**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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