

**HIGH DENSITY POLYETHYLENE HD5208 FL**

Version: 1.01

Revision Date 08.11.2019

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier****Trade name** High Density Polyethylene HD5208 FL**1.2 Relevant identified uses of the substance or mixture and uses advised against****Use** Industrial use  
raw material for industry  
Agricultural  
food industry**Uses advised against****1.3 Details of the supplier of the safety data sheet****Company** Sasol Chemie GmbH & Co. KG  
Anckelmannsplatz 1  
20537 Hamburg  
GermanyTelephone: +49 40 63684-1000  
Telefax: +49 40 63684-3700**Information (Product safety):** Telephone: + 49 (0) 23 65 - 49 47 05  
Telefax: + 49 (0) 23 65 - 49 92 40**E-mail address** solvents.germany.msds@de.sasol.com**1.4 Emergency telephone number****Emergency telephone number** +44 (0)1235 239 670 (Europe, Israel, Africa, Americas)  
+44 (0)1235 239 671 (Middle East, Arabic African countries)  
+65 3158 1074 (Asia Pacific)  
+86 10 5100 3039 (China)  
+27 (0)17 610 4444 (South Africa)  
+61 (2)8014 4558 (Australia)**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

**2.2 Label elements**

Not a hazardous substance or mixture.

**2.3 Other hazards**

Forms slippery/greasy layers with water.

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

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This product is a mixture in the meaning of regulation (EC) 1907/2006.

**CHEMICAL CHARACTERIZATION****Ethylene, 1-hexene polymer****component type:** Active ingredient**EC-No.:****Index-No.:****CAS-No.:** 25213-02-9**REACH No.:** Not relevant (polymer)**COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES**

No hazardous ingredients

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**SECTION 4: FIRST AID MEASURES**

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**4.1 Description of first aid measures**

<b>General advice</b>	No hazards which require special first aid measures.
<b>If inhaled</b>	If inhalation of melt processing fumes occurs, remove to fresh air. Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.
<b>In case of skin contact</b>	Wash off with plenty of water. Cool skin rapidly with cold water after contact with molten polymer. Do not peel polymer from the skin. Consult a physician.
<b>In case of eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>If swallowed</b>	Consult a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

**4.2 Most important symptoms and effects, both acute and delayed**

<b>Most important symptoms and effects, both acute and delayed</b>	Symptoms: No information available. Risks: Molten polymer can cause severe burns in contact with skin and eyes
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**4.3 Indication of any immediate medical attention and special treatment needed**

<b>Indication of any immediate medical attention and special treatment needed</b>	Treatment: No information available.
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**SECTION 5: FIREFIGHTING MEASURES**

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**5.1 Extinguishing media**

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**Suitable extinguishing media** Water spray, Dry powder, Foam, Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media** Do NOT use water jet.

### 5.2 Special hazards arising from the substance or mixture

**Specific hazards during firefighting** Dangerous gases or fumes may occur in case of fire.

### 5.3 Advice for firefighters

**Special protective equipment for firefighters** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information** Standard procedure for chemical fires.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

**Personal precautions** Use personal protective equipment.

**Special precautions** Knock down dust with water spray jet. Remove all sources of ignition. Pick up and arrange disposal without creating dust. Forms slippery/greasy layers with water.

### 6.2 Environmental precautions

**Environmental precautions** Do not flush into surface water or sanitary sewer system.

### 6.3 Methods and materials for containment and cleaning up

**Methods for cleaning up** Sweep up or vacuum up spillage and collect in suitable container for disposal. Molten form Allow to solidify, use mechanical handling equipment.

### 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

**Advice on safe handling** Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Keep away from flames, such as a pilot light, and any object that sparks, such as an electric motor. Avoid dust formation. No sparking tools should be used. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

**Advice on protection against fire and explosion** Normal measures for preventive fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

**Requirements for storage areas and containers** Store at room temperature.

**Other data** Stable under normal conditions.

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**7.3 Specific end use(s)**

**Specific use(s)** This information is not available.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****COMPONENTS WITH WORKPLACE CONTROL PARAMETERS****National occupational exposure limits**

No data available

**EUROPEAN OCCUPATIONAL EXPOSURE LIMITS**

No data available

**DERIVED NO EFFECT LEVEL (DNEL)****Substance name: Ethylene, 1-hexene polymer**

No data available

**PREDICTED NO EFFECT CONCENTRATION (PNEC)****Substance name: Ethylene, 1-hexene polymer**

No data available

**8.2 Exposure controls****PERSONAL PROTECTIVE EQUIPMENT**

<b>Respiratory protection</b>	No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where dust, fibres and smoke occur, use self-contained breathing apparatus or breathing apparatus with a type P2 or P3 filter, in compliance with EN 143.
<b>Hand protection</b>	Coordinate hand protection with other chemicals used. Preventive hand protection is recommended., Use barrier cream regularly.
<b>Eye protection</b>	Safety glasses
<b>Skin and body protection</b>	Wear suitable protective equipment.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Protective measures</b>	No special protective equipment required.

**ENVIRONMENTAL EXPOSURE CONTROLS**

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Water Do not flush into surface water or sanitary sewer system.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	solid; 20 °C; 1.012 hPa
<b>Form</b>	flakes, Pastilles
<b>Colour</b>	white
<b>Odour</b>	odourless
<b>Odour Threshold</b>	No valid method available.
<b>pH</b>	No data available
<b>Melting point/range</b>	110 - 167 °C
<b>Boiling point/boiling range</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Lower explosion limit</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Relative vapour density</b>	> 1
<b>Density</b>	0,92 - 0,97 g/cm <sup>3</sup> ; 23 °C
<b>Water solubility</b>	insoluble
<b>Partition coefficient: n-octanol/water</b>	not applicable (mixture)
<b>Ignition temperature</b>	No data available
<b>Auto-ignition temperature</b>	340 °C
<b>Viscosity, dynamic</b>	Not applicable, Justification: Solid
<b>Viscosity, kinematic</b>	Not applicable
<b>Explosive properties</b>	not expected based on structure and functional groups
<b>Oxidizing properties</b>	not expected based on structure and functional groups

**9.2 Other data**

Additional advice no data

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

Note Stable at normal ambient temperature and pressure.

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**10.2 Chemical stability**

**Note** No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

**Hazardous reactions** Hazardous decomposition products formed under fire conditions.

**10.4 Conditions to avoid**

**Conditions to avoid** Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.

**10.5 Incompatible materials to avoid**

**Materials to avoid** None known.;

**10.6 Hazardous decomposition products**

**Hazardous decomposition products** No decomposition if used as directed.

**Thermal decomposition** No decomposition if used as directed.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity**

**Acute oral toxicity** Ethylene, 1-hexene polymer:  
LD50 : > 2.000 mg/kg  
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).  
Test substance: polyethylene  
Based on available data, the classification criteria are not met.

**Acute inhalation toxicity** Ethylene, 1-hexene polymer:  
No data available

**Acute dermal toxicity** Ethylene, 1-hexene polymer:  
No data available

**Skin corrosion/irritation**

**Skin irritation** Ethylene, 1-hexene polymer:  
Rabbit: slightly irritating  
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).  
Test substance: polyethylene  
Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation**

**Eye irritation** Ethylene, 1-hexene polymer:  
Rabbit: slightly irritating  
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).  
Test substance: polyethylene  
Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation**

**Sensitisation** Ethylene, 1-hexene polymer:  
No data available

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### Germ cell mutagenicity

**Genotoxicity in vitro** Ethylene, 1-hexene polymer:  
No data available

**Genotoxicity in vivo** Ethylene, 1-hexene polymer:  
No data available

### Carcinogenicity

**Carcinogenicity** Ethylene, 1-hexene polymer:  
The product or substance does not contain constituents listed as a carcinogen.

### Reproductive toxicity

**Reproductive toxicity** Ethylene, 1-hexene polymer:  
This information is not available.

### STOT - single exposure

**Remarks** Ethylene, 1-hexene polymer:  
This information is not available.

### STOT - repeated exposure

**Remarks** Ethylene, 1-hexene polymer:  
This information is not available.

### Aspiration hazard

**Aspiration toxicity** Ethylene, 1-hexene polymer:  
No data available

**Toxicological information** Ethylene, 1-hexene polymer:  
No data available

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Toxicity to fish** Ethylene, 1-hexene polymer:  
No data available

**Toxicity to fish - Chronic toxicity** Ethylene, 1-hexene polymer:  
No data available

**Toxicity to daphnia and other aquatic invertebrates** Ethylene, 1-hexene polymer:  
No data available

**Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity** Ethylene, 1-hexene polymer:  
No data available

**Toxicity to aquatic plants** Ethylene, 1-hexene polymer:  
No data available

**Toxicity to bacteria** Ethylene, 1-hexene polymer:  
No data available

**Toxicity to soil dwelling organisms** Ethylene, 1-hexene polymer:  
No data available

**Toxicity to terrestrial flora** Ethylene, 1-hexene polymer:

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	No data available
<b>Toxicity for other terrestrial non-mammalian fauna</b>	Ethylene, 1-hexene polymer: No data available
<b>12.2 Persistence and degradability</b>	
<b>Biodegradability</b>	Ethylene, 1-hexene polymer: This material is not expected to be biodegradable.
<b>12.3 Bioaccumulative potential</b>	
<b>Bioaccumulation</b>	Ethylene, 1-hexene polymer: No data available
<b>12.4 Mobility in soil</b>	
<b>Mobility</b>	Ethylene, 1-hexene polymer: No data available
<b>12.5 Results of PBT and vPvB assessment</b>	
<b>Results of PBT assessment</b>	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
<b>Results of PBT assessment</b>	Ethylene, 1-hexene polymer: No data available
<b>12.6 Other adverse effects</b>	
<b>General advice</b>	Ethylene, 1-hexene polymer: 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

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

<b>Product</b>	Can be incinerated, when in compliance with local regulations.
<b>waste code of the European Union: EWC</b>	A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. The waste code must be determined in agreement with the regional waste disposal authority or company.

### SECTION 14: TRANSPORT INFORMATION

#### 14.1 UN number

<b>ADR</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods
<b>ADN</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>ICAO/IATA</b>	Not dangerous goods

#### 14.2 Proper shipping name



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ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

### 14.3 Transport hazard class

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

### 14.4 Packing group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

### 14.5 Environmental hazards

ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no
ADN	Environmentally hazardous	no
IMDG	Marine pollutant	no
ICAO/IATA	Environmentally hazardous	no

### 14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Remarks No information available.

## SECTION 15: REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### NATIONAL/OTHER REGULATIONS

Legislation on the control of major-accident hazards involving dangerous substances	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. list entry in the directive:: Not applicable
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**NOTIFICATION STATUS**

Switzerland. Consolidated Inventory (based on EU-EINECS and EU-NLP)	CH INV	listed (product or constituents are listed)
Canadian Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Australia Inventory of Chemical Substances (AICS)	AICS	listed (product or constituents are listed)
Japan. ENCS - Existing and New Chemical Substances Inventory	ENCS (JP)	listed (product or constituents are listed)
Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	listed (product or constituents are listed)
Korea. Korean Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	PICCS (PH)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC	listed (product or constituents are listed)
Taiwan Chemical Substance Inventory (TCSI)	TCSI	listed (product or constituents are listed)
United States TSCA Inventory	TSCA	listed (product or constituents are 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 chapter 3.

**15.2 Chemical safety assessment****Ethylene, 1-hexene polymer**

A Chemical Safety Assessment is not required for this substance (exempted from obligation to register).

**SECTION 16: OTHER INFORMATION****Safety datasheet sections which have been updated:**

- 3. Composition/information on ingredients
- 8. Exposure controls/personal protection
- 15. Regulatory information

**Further information:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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**Key or legend to abbreviations and acronyms used in the safety data sheet**

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC...	Effect concentration ... %
ENCS	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organization for Standardization
IUAPC	International Union of Pure and Applied Chemistry
KECI	Korea Existing Chemicals Inventory
LC...	Lethal Concentration, ...%
LD...	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NDSL	Non-Domestic Substances List
NOAEL	no observable adverse effect level
NOEL/NOEC	No Observed-effect level/concentration
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire de marchandises dangereuses
TG	Test Guideline
TRGS	Technische Regeln für Gefahrstoffe
TSCA	Toxic Substances Control Act
vPvB	very persistent, very bioaccumulative
WGK	Wassergefährdungsklasse