## yondellbasell Gen. Variant: SDS CA GHS

#### Microthene FN51900

Version 1.2 Revision Date 09/30/2019 Print Date 08/16/2022 SDS No.: BE6534

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Trade name : Microthene FN51900

CAS Number: : 9002-88-4

Chemical characterization : Polyethylene Homopolymer

Chemical name : Polyethylene

Synonyms : Ethene, homopolymer, PE

Identified uses : Manufacture of plastic articles by injection molding, extrusion

or other conversion process.

Prohibited uses : FDA Class III medical devices; European class III medical

devices; Health Canada class IV Medical Devices;

Applications involving permanent implantation into the body;

Life-sustaining medical applications

**Company Address** 

Equistar Chemicals, LP

LyondellBasell Tower, Suite 300

1221 McKinney St. P.O. Box 2583

Houston Texas 77252-2583

**Company Telephone** 

Customer Service 888 777-0232

product.safety@lyb.com

#### **Emergency telephone number**

LYONDELL 800-245-4532

E-mail address : product.safety@lyb.com

Responsible/issuing person

#### 2. HAZARDS IDENTIFICATION

#### **GHS Classification**

Combustible dust

#### Label elements

Signal word : Warning

Hazard Statements : If small particles are generated during further processing,

handling or by other means, may form combustible dust

concentrations in air.

#### Other hazards

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May decompose releasing irritating and toxic gases.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substances**

#### Components

Chemical name	CAS-No. EC-No.	Weight %	Component Type
Polyethylene	9002-88-4	100.0 %	

#### 4. FIRST AID MEASURES

General advice : Take proper precautions to ensure your own health and safety

before attempting rescue and providing first aid.

If inhaled : Remove person to fresh air. If signs/symptoms continue, get

medical attention.

In case of excessive inhalation of fumes that may be generated during heating of this material, move the person to fresh air.

Obtain medical attention.

Keep person warm, if necessary give Cardio-Pulmonary

Resuscitation (CPR)

In case of skin contact : If molten material contacts the skin, immediately flush with

large amounts of water to cool the affected tissue and polymer. Do not attempt to peel polymer from skin as this will remove the

skin.

Obtain immediate emergency medical attention if burn is deep

or extensive.

In case of eye contact : Flush eyes thoroughly with water for several minutes and seek

medical attention if discomfort persists.

: In case of eye contact with molten polymer:

Continuously flush eye(s) with cool running water for at least 15

minutes.

Beyond flushing, DO NOT attempt to remove the material

adherent to the eve(s).

Immediately seek medical attention.

If swallowed : Adverse health effects due to ingestion are not anticipated.

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#### Notes to physician

Symptoms : Inhalation of process fumes and vapors may cause soreness in

the nose and throat and coughing.

Hazards : Dust contact with the eyes can lead to mechanical irritation.

Molten polymer may cause thermal burns.

Treatment : Treatment of overexposure should be directed at the control of

symptoms and the clinical condition of the patient.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : SMALL FIRE:

Use dry chemical, CO2, or water spray.

: LARGE FIRES:

: None known.

Use water spray hose nozzles from a safe location.

Unsuitable extinguishing

nedia

Specific hazards during fire

fighting

Keep away from heat and sources of ignition.

Dust particles from this product are combustible particulate solids that present a flash fire or explosion hazard when

suspended in air.

Polymer dust layer melts on the hot surface before ignition can

occur

In case of fire hazardous decomposition products may be

produced such as:

Carbon monoxide, carbon dioxide and unburned hydrocarbons

(smoke).

Special protective equipment

for fire-fighters

Wear approved positive pressure self-contained breathing

apparatus and firefighter protective clothing.

Further information : Combustible particulate solid, will decompose under fire

conditions.

Calorific Value: 8000 - 11000 kcal/kg

Fight fire from safe distance with hose lines or monitor nozzles. Heat from fire may melt, decompose polymer, and generate

flammable vapors.

Move containers from fire area if it can be done without risk. Evacuate immediately in the event of opening of storage container pressure relief devices or discoloration of container.

Always stay away from tanks engulfed in fire.

Do not attempt to get on top of storage containers involved in

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fire.

Cool storage containers with large volumes of water even after

fire is out.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Equip responders with proper protection.

Creates dangerous slipping hazard on any hard smooth

surface.

Equip emergency responders with proper personal protective

equipment (PPE)

Avoid dispersal of dust in the air (i.e., clearing dust surfaces

with compressed air).

Potential combustible dust hazard.

Polymer particles create slipping hazard on hard smooth

surfaces.

: May Contain trace amounts of light hydrocarbons, compounds

of oxidation, aldehydes and acids

In case of material degradation use appropriate respiratory

equipment.

For personal protection see section 8.

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

Methods for containment / Methods for cleaning up

: On land, sweep/shovel into suitable disposal containers or

vacuum using equipment which avoids ignition risk.

On water, material is insoluble; collect and contain as any

solid.

All recovered material should be packaged, labeled,

transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good

engineering practices. Reclaim where possible.

#### 7. Handling and storage

#### Precautions for safe handling

Advice on safe handling : Avoid dust accumulation in enclosed space.

Use dust collection systems designed per NFPA 654 to avoid

dust accumulation.

Avoid generating dust; fine dust suspended in air and in the presence of an ignition source is a potential dust explosion

hazard.

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Polymer dust layer melts on the hot surface before ignition can occur

Hot surface temperature shall be limited to less than 270°C to avoid direct ignition of a dust cloud.

Static discharge (spark), or other ignition sources, in high dust environments may ignite the dust and result in a dust explosion

Electrostatic charge may build during conveying or handling. Equipment handling polymer should be conductive and grounded (earthed) and bonded.

Metal containers involved in the transfer of this material should be grounded and bonded.

All electrical equipment should conform to applicable electric codes and regulatory requirements for areas handling combustible dusts.

After handling, always wash hands thoroughly with soap and water.

When bringing the material to processing temperatures vapors may develop may condense in the exhaust ventilation. See section 10.

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

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

Requirements for storage areas and containers

: Store in a dry location.

Use good housekeeping practices during storage, transferring and handling. Process enclosures and adequate ventilation should be used to avoid excessive dust accumulation. Degradation can occur because of exposure to temperature, light and oxidizing agent: trace amounts of light hydrocarbons, compounds of oxidation, aldehydes and acids can be generated.

Store away from excessive heat and away from strong oxidizing agents.

Keep container closed to prevent contamination.

Take measures to prevent the build up of electrostatic charge.

Maximum allowed storage temperatures of 50°C for maximum 60 days.

Avoid direct insufflation of air.

Avoid direct sunlight and contact with sources of heat. Store either in the closed original containers in well ventilated area or in silos with vents.

: Avoid temperatures above 140 °F, direct sunlight and contact with sources of heat.

Store either in the closed original containers in well ventilated area or in silos with vents.

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#### Specific end use(s)

: See Section 1.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

#### Ingredients with workplace control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Type	Limit Value	Basis Revision Date	Additional Information
Materials that can be formed when handling this product: Non- specified (inert or		TWA	10 mg/m3 inhalable	US (ACGIH) 2005	momaton
nuisance) dust					
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust		TWA	3 mg/m3 respirable	US (ACGIH) 2005	
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust		TWA	15 mg/m3 total dust	US (OSHA) 2005	
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust		TWA	5 mg/m3 respirable	US (OSHA) 2005	

Consult local authorities for acceptable exposure limits.

#### **Exposure controls**

#### **Engineering measures**

Follow the recommendations in NFPA 654 (as amended and adopted) for equipment used to handle this product.



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Engineering controls, i.e. enclosed systems, should be used whenever feasible to maintain exposures below acceptable criteria. When such controls are not feasible, or sufficient to achieve full conformance, other engineering controls such as local exhaust ventilation should be used. Equipment and vessels handling combustible dust from this material should be designed to either prevent dust explosions (inerting) or safely vent dust explosions per NFPA 654 Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

#### Personal protective equipment

Respiratory protection : Use process enclosures, local exhaust ventilation, or other

engineering controls to keep airborne levels below

recommended exposure limits.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.
Use appropriate respiratory protection where atmosphere

exceeds recommended limits.

Where workers could be exposed to dust concentrations above the exposure limit they must use appropriate certified

respirators.

Hand protection : Wear gloves that provide thermal protection where there is a

potential for contact with heated material.

Eye and face protection : Dust service goggles should be worn to prevent mechanical

injury or other irritation to eyes due to airborne particles which

may result from handling this product.

Skin and body protection : Wear suitable protective clothing.

Hygiene measures : Selection of appropriate personal protective equipment should

be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered

during use.

Use good personal hygiene practices.

Wash hands before eating, drinking, smoking, or using toilet

facilities.

Take off contaminated clothing and wash before reuse.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Powders or flakes.
Color : Translucent to white

Odor : Slight.

Odor Threshold : No value available.

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Flash point : No Data Available.

Lower explosion limit : The minimum explosive concentration (MEC) for polymer dust

varies according to particle size distribution.

Upper explosion limit : Not applicable.

Flammability (solid, gas) : Polymer will burn but does not easily ignite.

Oxidizing properties : Not considered an oxidizing agent.

Autoignition temperature : > 300 °C

Decomposition temperature : not determined

Melting point/range : 50 - 170 °C

Boiling point/boiling range : Not applicable.

Vapor pressure : Not applicable.

Density : <1 g/cm3

Water solubility : Insoluble.

Partition coefficient: n-

octanol/water

: No Data Available.

Viscosity, dynamic : Not applicable.

Relative vapor density : Not applicable.

Evaporation rate : Not applicable.

Explosive properties : No Data Available.

Other Information : No additional information available.

#### 10. STABILITY AND REACTIVITY

Reactivity : No known reactivity hazards.

Chemical stability : Stable under normal conditions.

Hazardous reactions : Will not occur.

Conditions to avoid : Avoid contact with strong oxidizers, excessive heat, sparks or

open flame.

Materials to avoid : Material may be softened by some hydrocarbons.

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Hazardous decomposition

Thermal decomposition

products

: Not expected to decompose under normal conditions.

: Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols

may be formed.

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity : Not classified

Acute inhalation toxicity : Not classified

Acute dermal toxicity : Not classified

**Skin corrosion/irritation** : Not a skin irritant.

Serious eye damage/eye

irritation

: Not an eye irritant.

Mechanical irritation is possible.

Respiratory or skin

sensitization

: Not classified

Chronic toxicity

Carcinogenicity : Not classified

Not classified

Not listed by IARC, NTP, OSHA or EPA.

Germ cell mutagenicity : Not classified

Reproductive toxicity

Effects on fertility /

Effects on or via lactation

: Not classified

Effects on Development : Not classified

Target Organ Systemic : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

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**Toxicant - Single exposure** 

Target Organ Systemic Toxicant - Repeated

exposure

: The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Aspiration hazard : Not applicable.

12. Ecological information

**Ecotoxicology Assessment** 

hazard

Long-term (chronic)

aquatic hazard

Short-term (acute) aquatic : Not classified

: Not classified

Persistence and degradability

**Biodegradability** : Not expected to be biodegradable.

Bioaccumulative potential

Bioaccumulation : This material is not expected to bioaccumulate.

Mobility in soil

Mobility : no data available

Other adverse effects

pathways

**Environmental fate and** : This material is not volatile and insoluble in water.

Other information

Additional ecological

information

: Ecotoxicity is expected to be minimal based on the low water

solubility of polymers.

13. Disposal considerations

Waste treatment methods



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Product : All recovered material should be packaged, labeled,

transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good

engineering practices. Reclaim where possible.

Recycle if possible.

#### 14. TRANSPORT INFORMATION

Not regulated for transport

#### 15. REGULATORY INFORMATION

#### Other international regulations

#### **Global Inventory Status**

The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

\*Additional Explanatory Status Statements follow the table, as necessary.

Country/Region	Inventory	Status Description
Australia	AICS	Compliant
Canada	DSL	Compliant
China	IECSC	Compliant
Europe	REACH	See REACH Compliance Statement
Japan	ENCS	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant
Taiwan	TCSCA	Compliant

#### REACh status

If the product has been purchased from any company of the LyondellBasell group of companies registered in the European Union, we confirm that the chemical substance in this product has been registered under REACh, in accordance with the deadlines set forth in REACh. (Regulation (EU) No. 1907/2006)

Contact product.safety@lyb.com for additional global inventory information.

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#### 16. OTHER INFORMATION

#### Material safety datasheet sections which have been updated:

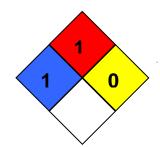
Revised Section(s): 15 16

HMIS Classification : Health Hazard: 1

Flammability: 1 Physical hazards: 0

NFPA Classification : Health Hazard: 1

Fire Hazard: 1 Instability: 0



#### **Further information**

HMIS rating scale (0 = minimal hazard; 4 = severe hazard) NFPA rating scale (0 = minimal hazard; 4 = severe hazard)

#### Disclaimer

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#### Numerical Data Presentation

The presentation of numerical data, such as that used for physical and chemical properties and toxicological values, is expressed using a comma (,) to separate digits into groups of three and a period (.) as the decimal marker. For example, 1,234.56 mg/kg = 1 234,56 mg/kg.

#### Language Translations

The information presented in this document has been translated from English by a vendor

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**End of Material Safety Data Sheet**