



Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date: 02.12.2016

Version number 3

Revision: 02.12.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**Trade name: **Polyethylene**

Trade name: EGYPTENE

CAS Number:

9002-88-4

Registration number: 01-2119462827-27-0130 (Registration number of the ethylene monomer)**1.2. Relevant identified uses of the substance or mixture and uses advised against****Application of the substance / the mixture:** Polymer preparations and compounds**Uses advised against:** Other uses than the identified uses indicated above.**1.3. Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Sidi Kerir Petrochemicals Co. (SIDPEC)
Alex.: Km. 36 Alex / Cairo Desert Road
Al Nahda - Al Ameria
Alexandria - Egypt
Tel.: + 203 4770131
Fax: + 203 4770900

Only Representative:

BiPRO GmbH
Grauertstr. 12
81545 Munich, Germany
Tel.: +49 (0)89 189 790 50
Fax: +49 (0)89 189 790 52
E-mail: SDS@bipro.de (competent person)

Further information obtainable from: Marketingspc@sidpec.com (technical information)**1.4. Emergency telephone number**

GIZ-Nord, Göttingen, Germany (Member of EPECS Network)
+49 (0)551 19240

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008:** The substance is not classified according to the CLP regulation.**2.2. Label elements****Labelling according to Regulation (EC) No 1272/2008:** void

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Trade name: Polyethylene**Hazard pictograms:** void**Signal word:** void**Hazard statements:** void**2.3. Other hazards****Results of PBT and vPvB assessment:** This substance does not meet the criteria for classification as PBT or vPvB.**SECTION 3: Composition/information on ingredients****3.1. Substances****CAS No. Description**

9002-88-4 Polyethylene (~100%)

Additional information:

REACH registration number: 01-2119462827-27-0130

(Registration number of the ethylene monomer, CAS No.: 74-85-1, EC No.: 200-815-3)

SECTION 4: First aid measures**4.1. Description of first aid measures****General information:** No special measures required.**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:**

Wash with water and soap.

If skin irritation is experienced, consult a doctor.

After contact with the molten product, cool rapidly with cold water.

Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

Do not pull solidified product off the skin.

After eye contact:

Rinse opened eye for several minutes under running water.

Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical attention in case of problems or if problems persist.

After swallowing:

Not a likely route of exposure.

Induce vomiting, if large quantities are swallowed.

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

Inhalation of dust may cause irritation of the respiratory system.

Dust may cause mechanical eye irritation.

Burns (by liquefied material)

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Trade name: Polyethylene**4.3. Indication of any immediate medical attention and special treatment needed**

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing agents:**

Water

Fire-extinguishing powder

Carbon dioxide (CO₂)**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2. Special hazards arising from the substance or mixture**

The product is: combustible.

Heating causes rise in pressure with risk of bursting.

Dust may form flammable/explosive mixtures with air.

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Aldehydes

5.3. Advice for firefighters**Protective equipment:** Wear a self-contained breathing apparatus and chemical resistant suit.**Additional information:**

Use water spray jet to protect personnel and to cool endangered containers.

Move undamaged containers from immediate hazard area if it can be done safely.

Do not inhale explosion gases or combustion gases.

Keep people at a distance and stay on the windward side.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid formation of dust.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Ensure adequate ventilation.

Avoid skin contact with the liquefied material.

Wear personal protection equipment.

6.2. Environmental precautions Dumping into the environment must be prevented.**6.3. Methods and material for containment and cleaning up**

Remove mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Prevent formation of dust.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Ensure adequate ventilation.
Wear personal protective equipment when dealing with hot/liquid melt.

Information about fire - and explosion protection: Usual measures for fire prevention.**7.2. Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Store only in the original container.
Store in a cool and dry location.
Keep container tightly closed in a well-ventilated place.
Keep ignition sources away.

Information about storage in one common storage facility:

Keep away from food, drink and animal feeding stuffs.
Store away from strong oxidising agents.
Do not store together with organic solvents.

Further information about storage conditions:

Observe instructions for use if available.
Ensure that local, federal and national legislation on storage conditions are observed.

Storage class: 11 Combustible solids (DE TRGS 510)**7.3. Specific end use(s)** See section 1.**SECTION 8: Exposure controls/personal protection****Additional information about design of technical facilities:**

Technical measures and the application of adequate working methods take priority over the use of personal protection equipment.

8.1. Control parameters**Ingredients with limit values that require monitoring at the workplace:**

Occupational exposure limit values for dust should be observed.
Dust, inhalable: WEL (UK): 10 mg/m³ (8h)
Dust, respirable: WEL (UK): 4 mg/m³ (8h)
Source: EH40/2005

Additional information: The lists valid during the making were used as basis.

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Trade name: **Polyethylene****8.2. Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Avoid generation of dust.
Ensure adequate ventilation.
Wash hands before breaks and at the end of work.
Do not eat, drink, smoke or sniff while working.

Respiratory protection:

If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, a self-contained breathing apparatus must be used!
Suitable respiratory protective equipment:
Self-contained respiratory protective device (handling at high temperatures)
Particulate filter device (in case of extensive dust generation)

Protection of hands:

Tested protective gloves are to be worn. When handling chemical substances, chemical protective gloves must be worn with CE label including a four digit code. Type of chemical protective gloves to choose depends on the concentration and quantity of dangerous substances as well as on work place specifications. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Wear heat resistant gloves when dealing with hot/liquid melt.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles
Face protection

Body protection: Select body protection specific to the task and event.

Limitation and supervision of exposure into the environment: Dumping into the environment must be prevented.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Solid
Colour:	Whitish
Odour:	Odourless

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Trade name: Polyethylene

Odour threshold:	None
pH-value:	Not applicable.
Change in condition	
Melting point/freezing point:	125 - 145 °C
Initial boiling point and boiling range:	≥ 300 °C (decomposition)
Flash point:	Not applicable.
Flammability (solid, gas):	Combustible.
Ignition temperature:	> 350 °C (ASTM D 1929-77)
Decomposition temperature:	≥ 300 °C
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard. Concentration of fine dust: risk of dust explosion
Explosion limits:	
Lower:	30 g/m ³ (mean particle size: 90 µm)
Upper:	Not applicable.
Oxidizing properties:	Not oxidizing.
Vapour pressure:	Not applicable.
Density:	910 - 960 kg/m ³
Vapour density:	Not applicable.
Evaporation rate:	Not applicable.
Solubility in / Miscibility with water:	Insoluble.
Partition coefficient: n-octanol/water:	No data available.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
9.2. Other information	Bulk density: 480-560 kg/m ³ (pellet) 300-320 kg/m ³ (powder)

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Trade name: Polyethylene**SECTION 10: Stability and reactivity**

10.1. Reactivity The product is stable under standard conditions (temperature, pressure) of storage and handling.

10.2. Chemical stability The product is stable under standard conditions (temperature, pressure) of storage and handling.

10.3. Possibility of hazardous reactions Dust may form explosive mixtures with air.

10.4. Conditions to avoid Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials

Oxidizing agents, strong

Organic solvents

10.6. Hazardous decomposition products

In case of fire/ heat, the following products can be released:

Carbon monoxide (CO) and carbon dioxide (CO₂)

Formaldehyde

Acrolein

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute toxicity: Based on available data, the classification criteria are not met.

Primary irritant effect:

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory tract: Dust may cause respiratory irritation.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

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Trade name: **Polyethylene****SECTION 12: Ecological information****12.1. Toxicity****Aquatic toxicity:** No relevant information available.**12.2. Persistence and degradability** Not biodegradable**12.3. Bioaccumulative potential** Bioaccumulative potential**12.4. Mobility in soil** No further relevant information available.**General notes:** Not known to be hazardous to water.**12.5. Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6. Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Recommendation:**

Waste disposal according to official state regulations.

Recovery or recycling, when possible.

Dumping into the environment must be prevented.

Waste disposal key: Consult the local waste disposal expert about waste disposal.**Uncleaned packaging:****Recommendation:**

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information**14.1. UN-Number****ADR, ADN, IMDG, IATA**

Void.

14.2. UN proper shipping name**ADR, ADN, IMDG, IATA**

Void.

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Trade name: **Polyethylene****14.3. Transport hazard class(es)**

ADR, ADN, IMDG, IATA

Class Void.

14.4. Packing group

ADR, IMDG, IATA

Void.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

UN "Model Regulation":

Void.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU-Regulations**

Regulation (EC) No 1907/2006 (REACH)

Regulation (EC) No 1272/2008 (CLP)

Regulation 98/24/EC (employee health protection)

Directive 2012/18/EU**Named dangerous substances - ANNEX I:** Substance is not listed.**National regulations:** National legislation has to be observed!**Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Employment restrictions concerning women of child-bearing age must be observed.

Other regulations, limitations and prohibitive regulations: Storage class (DE): 11**15.2. Chemical safety assessment** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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Trade name: Polyethylene**Training hints:**

The product should only be handled by persons, who were informed sufficiently about the nature of the product and about the necessary safety precautions.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Sources: Data arise from reference works and literature.

*** Data compared to the previous version altered.**