



JV "Uz-Kor Gas Chemical" LLC

**Material Safety Data Sheet (MSDS)**

HDPE MF5000 grade

According to Regulation (EC) No. 2020/878

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

## 1.1 Product identifier

**Product Name** : High Density Polyethylene, GRADE: MF5000

Other means of identification : No data

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Raw materials, Intermediates

Uses advised against : Use for recommended use only

## 1.3 Details of the supplier of the safety data sheet

Seller name : JV "Uz-Kor Gas Chemical" LLC.

Address : Akchalak, Kungrad region, Republic of Karakalpakstan,  
Uzbekistan

Telephone &amp; Fax : +99878129-29-00

## 1.4 Emergency telephone number : +998612267225

**SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture according to Regulation (EC) No 1272/2008

- Specific target organ toxicity single exposure Category 3(Respiratory tract irritation)

## 2.2 Label elements



Hazard pictogram :

Signal word : WARNING

Hazard statements : H335 May cause respiratory irritation

Precautionary statements

P261 : Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 : Use only outdoors or in a well-ventilated area.

P304+P340 : IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 : Call a POISON CENTER / toxins center / physician if you feel unwell.

- P403+P233 : Store in a well-ventilated place. Keep container tightly closed.
- P405 : Store locked up.
- P501 : Discard the contents/containers in accordance with the laws and laws related to waste.

### 2.3 Other hazards

- According to experience and information provided, this product does not affect harmful effects when used and handling it as a regulation.

## SECTION 3: Composition / information on ingredients

### 3.1 Substances

Chemical name	Common name	CAS No	Content [weight %]
Polyethylene	Polyethylene, Ethene polymer	9002-88-4	≥ 95 ~ ≤ 100

### 3.2 Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Following eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.
- Following skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.
- Following inhalation : Administer oxygen if breathing is difficult.  
If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.  
Give artificial respiration if victim is not breathing.  
Keep victim warm and quiet.
- Following ingestion : Seek immediate medical assistance.

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

: No data available

### 4.3 Indication of any immediate medical attention and special treatment needed

: Ensure that medical personnel are aware of the material(s)

involved and take precautions to protect themselves.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use alcohol resistant foam, carbon dioxide, or water spray when fighting fires involving this material.  
Direct water.  
CO2.  
Dry chemical.  
Use dry sand or earth to smother fire.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire

### 5.2 Special hazards arising from the substance or mixture (Hazardous combustion products)

: Containers may explode when heated.  
Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes, irritating, corrosive and/or toxic gas.  
Some may burn but none ignite readily.

### 5.3 Advice for firefighters

: Dike fire-control water for later disposal; do not scatter the material.  
Evacuate area and fight fire from a safe distance.  
Fire involving Tanks: ALWAYS stay away from tanks engulfed in fire; Cool containers with flooding quantities of water until well after fire is out; Fight fire from maximum distance or use unmanned hose holders or monitor nozzles; For massive fire, use unmanned hose holders or monitor nozzles, if this is impossible, withdraw from area and let fire burn; Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank; Move containers from fire area if you can do it without risk.  
Substance may be transported in a molten form.

## SECTION 6: Accidental release measures

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

#### 6.1.1 For non-emergency personnel

Protective equipment : The wearing of suitable protective equipment to prevent

- any contamination of skin, eyes and personal clothing.
- Emergency procedures : Removal of ignition sources, provision of sufficient ventilation. Avoid dust formation.
- 6.1.2 For emergency responders : Wear protective equipment and keep unprotected persons away. Refer to section 8.2.
- 6.2 Environmental precautions : Prevent entry into waterways, sewers, basements or confined areas.
- 6.3 Methods and material for containment and cleaning up
- 6.3.1 For containment : Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- 6.3.2 For cleaning up : Clear spills immediately.  
Don't use a brush or compressed air for cleaning surfaces or clothing.
- 6.3.3 Other information : Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.  
Absorb the liquid and scrub the area with detergent and water.
- 6.4 Reference to other sections : Section 8 (protective equipment), section 13 (disposal instructions)

## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling : Avoid breathing vapors from heated material.  
Do not enter storage area unless adequately ventilated.  
Follow all MSDS/label precautions even after container is emptied because they may retain product residues.  
Handling refer to engineering control/personal protection section.  
Loosen closure cautiously before opening.  
Please note that materials and conditions to be avoided.  
Keep away from heating source.  
Use care in handling/storage.  
Use only in a well-ventilated area.
- 7.2 Conditions for safe storage, including any incompatibilities : Store in a cool, dry, well-ventilated area or silo away from sources of heat, flame, and sparks. Ventilate enclosed storage areas, such as trailers and railcars, before entering.  
Have emergency equipment for fires and spills readily available.
- 7.3 Specific end uses : See section 1 for recommended use.

### SECTION 8: Exposure controls / personal protection

- 8.1 Control parameters : Contains no substances with occupational exposure limit values.
- 8.2 Exposure controls
- 8.2.1 Appropriate engineering controls : If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
- 8.2.2 Individual protection measures, such as personal protective equipment
- Eye/face protection : If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles
- Skin protection : Hand protection - Wear chemical safety gloves.  
Other - No data available
- Respiratory protection : If you have a direct contact or exposed to the material, wear the appropriate form of respiratory protection certified.
- Thermal hazards : Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
- 8.2.3 Environmental exposure controls : Ensure not to cause environmental pollution by discharging into rivers or other waterways.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	: Solid form
Color	: White
Odor	: Odorless
Melting point	: Approx. 131 °C
Upper/Lower explosion limit	: Not applicable
Density	: 0.951-0.956 g/cm <sup>3</sup>
Initial boiling point and boiling range	: No data available
Flammability(solid, gas)	: No data available
Flash point	: >221 °C
Auto ignition temperature	: 330 °C
Decomposition temperature	: No data available
pH	: Not applicable
Kinematic viscosity(mm <sup>2</sup> /s, 40°C)	: Not applicable
Solubility	: Insolubility

Partition coefficient(n-octanol/water)	: No data available
Vapour pressure	: Not applicable
Density/Relative density	: No data available
Relative Vapour density	: Not applicable
Particle characteristics	: No data available

## 9.2 Other information

9.2.1 Information with regard to physical hazard classes	: No data available
9.2.2 Other safety characteristics	: No data available

## SECTION 10: Stability and reactivity

10.1 Reactivity	: Containers may explode when heated. Fire may produce irritating, corrosive and/or toxic gases. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Some may burn but none ignite readily.
10.2 Chemical stability	: Stable under recommended storage and handling conditions.
10.3 Possibility of hazardous reactions	: There are no known dangerous reactions to these products. Polymerization will not occur.
10.4 Conditions to avoid	: Ignition source(heat, spark, flame, etc.).
10.5 Incompatible materials	: Combustibles, reducing material.
10.6 Hazardous decomposition products	: Corrosive/toxic fume. Irritating, corrosive and/or toxic gas.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Acute toxicity(Oral)	: Polyethylene, LD50> 8 000 mg/kg experimental species: Rat
Acute toxicity(Dermal)	: Not classified (No data available)
Acute toxicity(Inhalation: Gases)	: Not classified (No data available)
Acute toxicity(Inhalation: Vapors)	: Not classified (No data available)
Acute toxicity(Inhalation: Dust/mist)	: Polyethylene, 75.5 mg/l (Exposure time : 30 min) experimental species: Rat
Skin corrosion/irritation	: Not classified (No data available)

Serious eye damage/eye irritation	: Not classified (No data available)
Respiratory sensitization	: Not classified (No data available)
Skin sensitization	: Not classified (No data available)
Carcinogenicity	: Not classified (group 3 IARC)
Germ cell mutagenicity	: Not classified (No data available)
Reproductive toxicity	: Not classified (No data available)
STOT – single exposure	: Category 3(Respiratory tract irritation): If breathing dust causes inflammation of the lungs in laboratory animals (rats).
STOT – repeated exposure	: Not classified (No data available)
Aspiration hazard	: Not classified (No data available)

#### 11.2. Information on other hazards

11.2.1 Endocrine disrupting properties	: According to Regulation (EU) 2017/2100 and 2018/605, the substance not affects to endocrine system.
11.2.2 Other information	: No other hazards have been identified

### SECTION 12: Ecological information

12.1 Toxicity	: No data available
12.2 Persistence and degradability	: No data available
12.3 Bioaccumulative potential	: No data available
12.4 Mobility in soil	: No data available
12.5 Results of PBT and vPvB assessment	: No data available
12.6 Endocrine disrupting properties	: According to Regulation (EU) 2017/2100 and 2018/605, the substance not affects to endocrine system.
12.7 Other adverse effects	: No data available

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product / Packaging disposal : Empty containers should be taken to an approved waste handling site for recycling or disposal.
- Physical/chemical properties that may affect waste treatment options : No data available
- Waste treatment-relevant information : Disposal according to local regulations.
- Sewage disposal-relevant information : Disposal according to local regulations and avoid

release to the environment.

- Other disposal recommendations : No data available

#### SECTION 14: Transportation requirements

- 14.1 UN number or ID number : Not applicable
- 14.2 UN Proper shipping name : Not applicable
- 14.3 Transport hazard class(es) : Not applicable
- 14.4 Packing group : Not applicable
- 14.5 Environmental hazards : No
- 14.6 Special precaution for user
- Emergency measures in case of fire : Not applicable
- Emergency measures in the effluent : Not applicable
- 14.7 Maritime transport in bulk according to IMO instruments : No data available
- ADR
- Tunnel restriction code : Not applicable
- IMDG
- Marine pollutant : No

#### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- 15.1.1 EU regulations
- EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances : Not applicable
- EU - REACH (1907/2006) - Annex XIV - Substances Subject to Authorization : Not applicable
- 15.1.2 Other EU regulations
- EU - Persistent Organic Pollutants (POPs) (2019/1021) - Annex III - Substances Subject to Release Reduction Provisions : Not applicable
- EU - Persistent Organic Pollutants (POPs) (2019/1021) - Annex I - Substances Subject to Prohibitions : Not applicable
- EU - Persistent Organic Pollutants (POPs) (2019/1021) - Annex IV - Waste Management – Concentration Limits : Not applicable
- EU - Persistent Organic Pollutants (POPs) (2019/1021) - Annex V - Waste Management - Maximum Concentration Limits : Not applicable
- EU - Substances Depleting the Ozone layer (1005/2009) - Annex I Substances : Not applicable



- EU - Substances Depleting the Ozone layer (1005/2009) - Annex II Part A Substances : Not applicable
- EU - Substances Depleting the Ozone layer (1005/2009) - Annex II Part B Substances : Not applicable
- EU - Paints, Varnishes, Vehicle Refinishing Products (2004/42/CE) - Annex II A - WB Phase 1 - VOCs : Not applicable
- EU - Paints, Varnishes, Vehicle Refinishing Products (2004/42/CE) - Annex II A - WB Phase 2 - VOCs : Not applicable
- EU - Paints, Varnishes, Vehicle Refinishing Products (2004/42/CE) - Annex II B - Vehicles - VOCs : Not applicable
- EU - Paints, Varnishes, Vehicle Refinishing Products (2004/42/CE) - Annex II A - SB Phase 1 - VOCs : Not applicable
- EU - Paints, Varnishes, Vehicle Refinishing Products (2004/42/CE) - Annex II A - SB Phase 2 - VOCs : Not applicable
- EU - Seveso III Directive (2012/18/EU) - Qualifying Quantities of Dangerous Substances - Lower-Tier Requirements : Not applicable
- EU - Seveso III Directive (2012/18/EU) - Qualifying Quantities of Dangerous Substances - Higher-Tier Requirements : Not applicable
- EU - Export and Import Restrictions (649/2012) - Chemicals Subject to Export Notification Procedure : Not applicable
- EU - Export and Import Restrictions (649/2012) - Chemicals and Articles Subject to Export Ban : Not applicable
- EU - Export and Import Restrictions (649/2012) - Chemicals Subject to the PIC Procedure under the Rotterdam Convention : Not applicable
- EU - Export and Import Restrictions (649/2012) - Chemicals Qualifying for PIC Notification : Not applicable
- EU - Industrial Emissions (2010/75/EU) - Integrated Pollution Prevention and Control Directive - List of Polluting Substances : Not applicable
- EU - Fluorinated Gases (517/2014) - Global Warming Potential : Not applicable

#### 15.2 Chemical Safety Assessment

- A Chemical Safety Assessment has been carried out.

### SECTION 16: Other information

#### 16.1 Key literature references and sources for data

NCIS, KOSHA, Montreal Protocol, ECHA, OECD SIDS, EU IUCLID, HSDB(PubChem), NITE, NTP, ACGIH, IARC, NIOSH, ChemIDplus, EPA, EPI Suite, INCHEM

#### 16.2 Issuing date: 01-2016

#### 16.3 Revision date

- Revision number: 2.0
- Revision date: 02-2023

#### 16.4 Abbreviations and acronyms

ACGIH : American Conference of Governmental Industrial Hygienists

ADR : Agreement Concerning the International Carriage of Dangerous Goods by Road

HSDB : Hazardous Substances Data Bank

IARC : International Agency for Research on Cancer

IMDG : International Maritime Dangerous Goods Codes

INCHEM : Internationally Peer Reviewed Chemical Safety Information

NIOSH : National Institute of Occupational Safety and Health

NTP : National Toxicology Program

NITE : National Institute of Technology and Evaluation(JAPAN)

OECD SIDS : Organization for Economic Co-operation and Development Screening  
Information Dataset