

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 as amended by Commission Regulation (EU) 2020/878 and Regulation (EC) No. 1272/2008

Issuing Date 18-Dec-2020 Revision Date 26-Jul-2023 Revision Number 3.1

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

### 1.1. Product identifier

Product Code(s) IDEALIS500, IDEALIS500WS, IDEALIS509, IDEALISMG, UTEC3040, UTEC3040WS,

UTEC3041, UTEC3049, UTEC4040, UTEC4041, UTEC5040, UTEC5041, UTEC5041F,

UTEC5540, UTEC5541, UTEC5541F, UTEC5542F, UTEC6540, UTEC6540G,

UTEC6540WS, UTEC6541, UTEC6549, UTEC7542F, UTECMG, UTECOV, VARUTEC

Product Name

Ultra High Molecular Weight Polyethylene

**Synonyms** Polyethylene homopolymer

Pure substance/mixture Mixture

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

**Recommended use** Polymer preparations and compounds

Uses advised against No information available

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

#### Supplier

Braskem Netherlands BV Weena 238-240, 9th Floor Tower C NL - 3012NJ- Rotterdam, Netherlands Telephone: +31 10 798 5002

### For further information, please contact

E-mail address polymer.compliance-europe@braskem.com

## 1.4. Emergency telephone number

Emergency telephone CHEMTREC International: +1 703-741-5970

Emergency telephone - §45 - (EC)1272/2008
Europe | 112

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

### Regulation (EC) No 1272/2008

This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

#### 2.2. Label elements

## **Hazard statements**

Not classified.

#### Unknown acute toxicity

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).

## 2.3. Other hazards

Special danger of slipping by leaking/spilling product. Electrostatic charges may be generated during handling. If small particles are generated during processing or handling, this product may form combustible dust concentrations in air. This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

Endocrine Disruptor Information This product does

This product does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition/information on ingredients

## 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Polyethylene homopolymer 9002-88-4	98-100	No data available	618-339-3	[C]	•	-	-

Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes

### Full text of H- and EUH-phrases: see section 16

#### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
			hour - dust/mist -	hour - vapour - mg/L	hour - gas - ppm
			mg/L		
Polyethylene homopolymer 9002-88-4	4004	-	-	-	-

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

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<sup>[</sup>C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring

**Inhalation** Remove to fresh air.

**Eye contact** Rinse thoroughly with plenty of water, also under the eyelids.

**Skin contact** Wash skin with soap and water.

**Ingestion** Clean mouth with water and afterwards drink plenty of water.

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

**Symptoms** Product dust may be irritating to eyes, skin and respiratory system.

Effects of Exposure No information available.

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

**Note to doctors**Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

**Unsuitable extinguishing media** No information available.

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

Specific hazards arising from the

chemical

Avoid generation of dust. Fine dust dispersed in air may ignite.

## 5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

## SECTION 6: Accidental release measures

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

Personal precautions Ensure adequate ventilation. Avoid generation of dust. Avoid contact with eyes. Use

personal protective equipment as required. Do not breathe dust. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary

measures against static discharges.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

## 6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Prevent dust cloud. Ventilate the area.

Methods for cleaning up May be a slipping hazard when spilled. Take up with inert, damp, non-combustible material

using clean non-sparking tools and place into loosely covered plastic containers for later

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disposal. Pick up and transfer to properly labelled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information See section 13 for more information

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Airborne dusts are potentially explosive. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Handling and processing operations should be conducted in accordance with 'best practices' (e.g. NFPA-654). Obtain special instructions before use. Keep container closed when not in use. Minimise dust generation and accumulation. Ensure adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with eyes. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges. May be a slipping hazard when spilled. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Dust could be formed as a result of granule degradation by impact or by abrasion during handling, grinding, or conveying operations.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and immediately after handling the product. Do not breathe dust.

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

Storage Conditions Store in a well-ventila

Store in a well-ventilated place. Minimise dust generation and accumulation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Proper grounding procedures to avoid static electricity should be followed.

Storage class (TRGS 510) LGK 11.

7.3. Specific end use(s)

**Specific use(s)** Polymer preparations and compounds.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Polyethylene	-	=	=	TWA: 10.0 mg/m <sup>3</sup>	-
homopolymer					
9002-88-4					
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Polyethylene	-	TWA: 5 mg/m <sup>3</sup>	-	-	-
homopolymer					

9002-88-4					
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Polyethylene	-	-	=	TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
homopolymer					
9002-88-4					

#### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers No information available

Derived No Effect Level (DNEL) - General Public No information available.

## 8.2. Exposure controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles). Eye protection must conform to

standard EN 166.

**Hand protection** Impervious gloves. Gloves must conform to standard EN 374.

**Skin and body protection** Impervious clothing. (EN ISO 6529).

**Respiratory protection**No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required. Consult with an industrial hygienist to determine the appropriate respiratory protection for your

specific use of this material (EN 137).

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Wash hands and

face before breaks and immediately after handling the product. Do not breathe dust.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

**Appearance** White to off-white. Powder.

Physical state Solid

ColourWhite to off-whiteOdourNo information availableOdour thresholdNo information available

PropertyValuesRemarks • MethodMelting point / freezing point130 - 140 °CNo data available

Initial boiling point and boiling

No data available range

Flammability No data available

Flammability Limit in Air

The minimum explosive concentration (MEC) for

polymer dust varies according to particle size

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distribution

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point

Autoignition temperature
Decomposition temperature
pH
(as aqueous solution)
Kinematic viscosity

No data available

Dynamic viscosity

Water solubility
Solubility(ies)

Partition coefficient
Vapour pressure

No data available

Relative density0.92- 0.935 g/cm³No data availableBulk densityNo data availableLiquid DensityNo data availableRelative vapour densityNo data available

Particle characteristics

Particle SizeNo data availableParticle Size DistributionNo data available

#### 9.2. Other information

### 9.2.1. Information with regards to physical hazard classes

Not applicable

#### 9.2.2. Other safety characteristics

No information available

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** None under normal use conditions.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

**Sensitivity to mechanical impact** None. **Sensitivity to static discharge** None.

## 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions 
None under normal processing.

10.4. Conditions to avoid

**Conditions to avoid** Heat, flames and sparks. Incompatible materials. Dust formation.

## 10.5. Incompatible materials

**Incompatible materials** Fluorine. Strong acids. Strong oxidising agents. Chlorinated compounds. Aromatic solvents.

#### 10.6. Hazardous decomposition products

Hazardous decomposition products Decomposition products depend on temperature, exposure to air, and the presence of other

substances. Processing may release irritating fumes, olefinic and paraffinic compounds, carbon monoxide, and carbon dioxide. Potential thermal decomposition products include trace aldehydes (including formaldehyde), alcohols, organic acids, and hydrocarbons.

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## SECTION 11: Toxicological information

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

#### Information on likely routes of exposure

Product Information

**Inhalation** Specific test data for the substance or mixture is not available. Inhalation of dust in high

concentration may cause mechanical irritation of respiratory system.

Eye contact Specific test data for the substance or mixture is not available. Dust contact with the eyes

can lead to mechanical irritation.

**Skin contact** Specific test data for the substance or mixture is not available. Contact with dust can cause

mechanical irritation or drying of the skin.

**Ingestion** Specific test data for the substance or mixture is not available.

## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Product dust may be irritating to eyes, skin and respiratory system.

Acute toxicity

Numerical measures of toxicity

### Unknown acute toxicity

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Polyethylene homopolymer	> 4000 mg/kg (Rat)	-	-	

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

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

Serious eye damage/eye irritation

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

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

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

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.

### 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

11.2.2. Other information

Other adverse effects No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

### 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** No information available.

12.4. Mobility in soil

**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

## 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

## 12.7. Other adverse effects

Other adverse effects No information available.

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

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environmental legislation.

Contaminated packaging Do not reuse empty containers.

Waste codes / waste designations

according to EWC / AVV

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application

for which the product was used.

## SECTION 14: Transport information

IMDG Not regulated 14.1 **UN number or ID number** Not regulated Not regulated 14.2 UN proper shipping name 14.3 Transport hazard class(es) Not regulated Packing group Not applicable **Environmental hazards** Not applicable 14.5

14.6 Special Precautions for Users

**Special Provisions** None

14.7 Maritime transport in bulk according to IMO instruments

No information available

RID Not regulated 14.1 **UN number** Not regulated **UN** proper shipping name Not regulated 14.2 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not applicable 14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

**Special Provisions** None

ADR Not regulated Not regulated **UN number or ID number** 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not applicable 14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

**Special Provisions** None

IATA Not regulated 14.1 UN number or ID number Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not applicable **Environmental hazards** Not applicable

14.6 Special Precautions for Users

**Special Provisions** None Note: None

## SECTION 15: Regulatory information

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

National regulations

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#### **France**

#### Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	
Polyethylene homopolymer	RG 66	
9002-88-4		

#### Germany

Water hazard class (WGK) non-hazardous to water (nwg)

#### **Netherlands**

Water contaminating class (Netherlands)

Chemical name	Netherlands - List of	Netherlands - List of	Netherlands - List of
	Carcinogens	Mutagens	Reproductive Toxins
Polyethylene homopolymer	-	-	-

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### **Persistent Organic Pollutants**

Not applicable

## Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

## **International Inventories**

Contact supplier for inventory compliance status

### 15.2. Chemical safety assessment

**Chemical Safety Report** No information available

## **SECTION 16: Other information**

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

### Legend

ATE: Acute Toxicity Estimate

SVHC: Substances of Very High Concern for Authorisation: PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

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Ceiling Maximum limit value \* Skin designation

SCBA Self-contained breathing apparatus

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

European Chemicals Agency (ECHA) (ECHA\_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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**Revision Note** SDS sections updated: 1, 2, 3.

This safety data sheet complies with the requirements of Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006

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#### **Disclaimer**

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.

**End of Safety Data Sheet**