



## SAFETY DATA SHEET

**RECYCLED LOW DENSITY POLYETHYLENE**  
**POLYMERS RECYCLE - r-LDPE r-LLDPE r-MDPE r-HDPE**

Version number: 5

Released: 2023 First Version

Revision date: 02/01/2026

POLYMERS RECYCLE d.o.o. recommends carefully reading each section of the product's Safety Data Sheet (SDS). This document contains important information. The company receiving the document must follow the precautions identified therein, unless the conditions of use at the company require the adoption of more appropriate measures or actions other than those described.

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

#### 1. 1 Product identifier

Commercial name	<b>LDPE, LLDPE, MDPE, HDPE</b>
Name of the chemical substance	Polyethylene-based preparation.

#### 1. 2 Relevant identified uses of the substance or mixture and uses advised against

**Not applicable**

#### 1.3 Information on the supplier of the safety data sheet

Supplier	<p><b><u>POLYMERS RECYCLE d.o.o.</u></b></p> <p><b><u>Simonetija - Simonetia, 59</u></b></p> <p><b><u>52460 Kaldanija - Caldania - Buje (HR) Croatia</u></b></p> <p>Tel +385 916122083 (HR) Tel +39 335 7339848 (IT)</p>
Producer	<p><b><u>POLYMERS RECYCLE d.o.o.</u></b></p> <p><b><u>Simonetija - Simonetia, 59</u></b></p> <p><b><u>52460 Kaldanija - Caldania - Buje (HR) Croatia</u></b></p> <p>Tel +385 916122083 (HR) Tel +39 335 7339848 (IT)</p>



**POLYMERS RECYCLE**  
CONTRIBUIRE ALLA SOSTENIBILITA' AMBIENTALE  
CONTRIBUTE TO ENVIRONMENTAL SUSTAINABILITY

## **POLYMERS RECYCLE d.o.o.**

Simonetija - Simonetia, 59  
52460 Kaldanija - Caldania - Buje (HR) Croazia  
Tel + 385 916122083 (HR)  
Tel +39 335 7339848 (IT)  
OIB: 50498801803 / VIES:HR50498801803

### 1.4 Emergency telephone number

Telephone number of emergency	In case of emergency call: Tel +385 916122083 (HR) Tel +39 335 7339848 (IT)
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## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

<b>Description</b>	The product is not classified as dangerous according to Regulation (EC) No. 1272/2008 (CLP).  Adverse human health effects: If dust occurs, ACM recommends treating it as a nuisance dust or particulate matter, according to international recommendations. Dust can cause respiratory irritation if inhaled. Environmental effects: The product is expected to have high persistence and slow degradability.
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### 2.2 Label elements

The product does not require labelling

### 2.3 Other dangers

Not applicable

## **SECTION 3: Composition/information on ingredients**

### 3.1 Substance

Not applicable

### 3.2 Mixtures

Chemical name	CAS number	Concentration	Classification EU Re 1272/08	H-phrases
Proprietary blend at PE base	Mixture	<100%	Unclassified	-



<b>More information on the substance</b>	It contains no ingredients or impurities that contribute to the classification as a harmful product.  Synonyms: Low/high/medium density polyethylene (LDPE-LLDPE-HDPE-.MDPE)
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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>Inhalation</b>	No risk from inhalation at room temperature. If dust or vapors are inhaled at high temperatures, move the victim outdoors and keep them at rest. Consult a doctor. Take this SDS.
<b>Skin contact</b>	No health risks from skin contact at room temperature. If contact with hot product occurs and irritation occurs, rinse with plenty of water.  Remove the clothing contaminated with the product. Consult a doctor. Take this SDS.
<b>Eye contact</b>	Rinse with running water for at least 15 minutes, holding the eyelids open. Remove any contact lenses. Consult a doctor. Take this SDS.
<b>Ingestion</b>	Rinse the victim's mouth with plenty of water. DO NOT INDUCE VOMITING!  Consult a doctor. Take this SDS.

### 4.2 Main symptoms and effects, both acute and delayed

**If dust forms and if inhaled, it may cause coughing and sneezing.**

### 4.3 Indication of any need to immediately consult a doctor and require special treatment

Avoid contact with this product while providing assistance to the victim. Keep the victim calm and warm. Do not administer anything to an unconscious person. Symptomatic treatment should primarily include supportive measures such as correcting fluid and electrolyte disturbances and providing respiratory assistance..

**SECTION 5: Fire prevention measures**

*5.1 Extinguishing media*

<b>Extinguishing media suitable</b>	Carbon dioxide (CO <sub>2</sub> ), dry chemical powders, foams, water mist
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*5.2 Special hazards arising from the substance or mixture*

**In case of fire, it could produce irritating and toxic gases such as carbon monoxide and carbon dioxide.**

*5.3 Recommendations for firefighters*

<b>Equipment of protection for firefighters fire</b>	Firefighters should wear suitable protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece.
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**Other**

**Cool closed containers near flames with water spray. Extinguish the fire from a safe distance. Evacuate the area.**

**SECTION 6: Accidental release measures**

*6.1 Personal precautions, protective equipment and emergency procedures*

<b>Personal precautions, protective devices and procedures in case of emergency</b>	<p>Dust Control: The product does not generate dust.</p> <p>Removal of ignition sources: The product is non-flammable. Preventively eliminate all ignition sources in the surrounding area. Do not smoke in the area.</p> <p>Provide adequate ventilation: Use in a well-ventilated area.</p> <p>Prevention of inhalation and contact with skin, mucous membranes, and eyes: Avoid contact with eyes. Use the protective equipment listed in section 8 of the safety data sheet.</p>
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#### 6.2 Environmental precautions

<b>Environmental precautions</b>	Do not allow this chemical to enter the environment (soil, waterways, and groundwater). Do not dispose of directly into the environment or sewers.
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#### 6.3 Methods and materials for containment and cleanup

**Use a dust-free method. Collect the material in appropriate containers and transport it to a safe place.**

#### 6.4 Reference to other sections

Not applicable

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

<b>Preventive measures for handling</b>	Handle in a well-ventilated area or with general exhaust ventilation. local/drain. Avoid contact with eyes and clothing. Remove sources of ignition. ignition and heat. Smoking is prohibited. Use exposure control measures and appropriate personal protective equipment as indicated in Section 8.
<b>General hygiene</b>	Do not eat, drink, or smoke while using this product. Wash your hands before use. eating, drinking, smoking, or using the toilet. Remove contaminated clothing and wash it before reuse.

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

<b>Specific end uses</b>	Store the product in its original packaging in a cool, dry, fireproof place away from direct sunlight. Keep containers tightly closed. Keep away from food and drinks. Keep out of reach of children.  Incompatibility: Fluorine, Strong acids, Strong oxidizing substances, chlorinated solvents and aromatic compounds.  Packaging materials: Being an inert material, polyethylene resin can be packaged in big bags.
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#### 7.3 Specific end uses

Not applicable



## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Not applicable

### 8.2 Exposure controls

<b>Precautionary measures techniques</b>	Provide mechanical ventilation or direct exhaust to the outside environment. Yes recommends having a safety shower and a drinking fountain eye contact near the workplace. Engineering control measures are the most effective way to reduce exposure to the product.
<b>Eye protection / the face</b>	Safety glasses with side protection. Avoid using contact lenses when the product is handled

<b>Other protective devices of the skin</b>	Suitable protective suit
<b>Road protection respiratory</b>	No specific respiratory protective equipment is required
<b>Thermal hazards</b>	Full suit with vents or other heat-resistant clothing
<b>Exposure controls environmental</b>	Do not discharge directly into the environment or sewer systems. The water used for extinguishing the fire can cause pollution



**SECTION 9: Physical and chemical properties**

*9.1 Information on basic physical and chemical properties*

<b>Appearance, color</b>	<b>Natural/Amber/White/Black/Green/Blue/Yellow</b>
<b>Appearance, physical condition</b>	<b>Solid</b>
<b>Partition coefficient: n-octanol/water</b>	<b>Not applicable</b>
<b>Vapor density</b>	<b>Not applicable</b>
<b>Relative densities</b>	<b>0.920 - 0.950 g/cm3</b>
<b>Flammability (solids)</b>	<b>Non-flammable</b>
<b>Flammability (solids, gases)</b>	<b>Not applicable</b>
<b>Upper/lower limit of flammability or explosion</b>	<b>Not applicable</b>
<b>Odor</b>	<b>Not applicable</b>
<b>Vapor pressure</b>	<b>Not applicable</b>
<b>Explosive properties</b>	<b>Not applicable</b>
<b>Oxidizing properties</b>	<b>Not applicable</b>
<b>Initial boiling point and boiling range</b>	<b>Not applicable</b>
<b>Melting point / freezing point</b>	<b>Not applicable</b>
<b>Flash point</b>	<b>Not applicable</b>
<b>Odor threshold</b>	<b>Not applicable</b>
<b>Solubility</b>	<b>Soluble in xylene</b>
<b>Solubility in water</b>	<b>Not soluble in water</b>
<b>Autoignition temperature</b>	<b>350°C</b>
<b>Decomposition temperature</b>	<b>Not applicable</b>
<b>pH value</b>	<b>Not applicable</b>
<b>Evaporation rate</b>	<b>Not applicable</b>
<b>Viscosity</b>	<b>Not applicable</b>



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#### 9.2 Other information

The maximum shelf life of polyethylene is 24 months after production.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

**Not applicable**

#### 10.2 Chemical stability

**Stable under normal conditions of use and storage. Does not undergo depolymerization.**

#### 10.3 Possibility of hazardous reactions

**Reacts violently with fluorine.**

#### 10.4 Conditions to avoid

**High temperatures. Incompatible materials..**

#### 10.5 Incompatible materials

**Fluorine, strong acids, strong oxidizing agents, chlorinated solvents and aromatic compounds.**

#### 10.6 Hazardous decomposition products

**Decomposition products depend on the processing temperature and the presence of other materials. The processing temperature is approximately 250°C. At this temperature, the concentrations of some hazardous substances, when detected, are lower than the action level adopted by international references (ACGHI, NIOSH, and OSHA). At temperatures above melting temperatures, the profile of decomposition products may be different, and the fumes may be irritating..**



## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity	Non-toxic product LD50 / oral / rat > 4000 mg / kg
Skin corrosion/skin irritation	Non-irritating
serious eye damage/eye irritation	Non-irritating
respiratory or skin sensitization	Depending on the processing temperature, fumes may be irritants
germ cell mutagenicity	No mutagenic effects on germ cells are known.
Genotoxicity	Not applicable
Carcinogenicity	No carcinogenic effects are known.
reproductive toxicity	No toxic effects on the reproductive system are known.
specific target organ toxicity (STOT) — single exposure	If dust forms, it may cause respiratory irritation resulting in coughing and sneezing.
specific target organ toxicity (STOT) — repeated exposure	No effects are known from repeated exposure.
danger in case of aspiration	No effects on aspiration are known.
D50 Oral	LD50/oral/rat = > 8000 mg/kg



## SECTION 12: Ecological information

### 12.1 Toxicity

**No ecological toxicity values** are known.

### 12.2 Persistence and degradability

**High persistence and slow degradability are expected.**

### 12.3 Bioaccumulative potential

**Moderate to high bioaccumulation potential is expected. Polyethylene homopolymer: logKow: 14.04 (estimated).**

### 12.4 Mobility in soil

**Not applicable**

### 12.5 Results of PBT and vPvB assessment

**Not applicable**

### 12.6 Other adverse effects

**Not applicable**

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

<b>Disposal Considerations</b>	<p>It must be disposed of as hazardous waste according to local regulations. Treatment and disposal must be assessed specifically for each product. Recycle any unused portion of the approved material or return it to the manufacturer or supplier. For other methods, consult local regulations.</p> <p>Product waste: Keep product waste in its original, properly sealed containers. Dispose of it as directed for the product.</p>
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<b>Packaging</b>	<p>Polyethylene containers must be reused in the workplace. They can store the product waste and dispose of it properly, keeping it closed. Recycling is possible, provided that the relevant regulations are followed.</p>
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## SECTION 14: Transport information

### 14.1 UN number

<b>UN number</b>	Not classified as hazardous material for transport
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### 14.2 UN proper shipping name

**Not applicable**

### 14.3 Transport hazard classes

**Not applicable**

### 14.4 Packing group

**Not applicable**

### 14.5 Dangers for the environment

**Not dangerous**

### 14.6 Special precautions for users

**Not applicable**



## SECTION 15: Regulatory information

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

<b>EU Regulations</b>	<p>Regulation (EC) No. 1907/2006 (REACH) of the European Parliament and of the Council. COMMISSION REGULATION (EU) 2024/1328 of 16 May 2024, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Annex II SDS.</p> <p>■ <b>REACH Annex XIV</b></p> <p>None of the substances currently listed in Annex XIV of the REACH Regulation or in the SVHC candidate list are known to be incorporated in this product in quantities <math>\geq 0.1\%</math> w/w.</p> <p>■ <b>REACH Annex XVII</b></p> <p>None of the substances currently listed in Annex XVII of the REACH regulation or in the SVHC candidate list are known to be incorporated in this product in quantities <math>\geq 0.1\%</math> w/w.</p> <p>■ <b>REACH – Candidate List of Substances of Very High Concern for authorization</b></p> <p>This product does not contain substances of very high concern (REACH Regulation, art. 57)</p>
<b>National standards</b>	Observe national and local regulations
<b>Other regulations, limitations and legal provisions</b>	International Labor Organization C170 Chemicals Convention, from 25 June 1990: Occupational safety and health - Toxic substances and agents.  UN Recommendations on the Transport of Dangerous Goods. Model Regulations, 17th edition, 2011 Limitations: No usage limitations found

### 15.2 Chemical safety assessment

**Not applicable**



**SECTION 16: Other information**

<p><b>Main references</b> bibliographic and data sources</p>	<p>ACGIH - AMERICAN CONFERENCE OF GOVERNMENT INDUSTRIAL HYGIENISTS . Available at: <a href="http://www.acgih.org/TLV/">http://www.acgih.org/TLV/</a>. Accessed: October 2011. ECB - EUROPEAN CHEMICALS OFFICE. Directive 67/548/EEC (substances (dangerous preparations); Directive 1999/45/EC (dangerous preparations). Available at: <a href="http://ecb.jrc.it/">http://ecb.jrc.it/</a>. US EPA. 2011. EPI Suite for Microsoft Windows, v 4.10. United States: Environmental Protection Agency, Washington. 2011. Available at the address: <a href="http://www.epa.gov/oppt/exposure/pubs/episuite.htm">http://www.epa.gov/oppt/exposure/pubs/episuite.htm</a>. HSDB - DATABASE OF DANGEROUS SUBSTANCES. Available at: <a href="http://toxnet.nlm.nih.gov/cgibin/sis/htmlgen?HSDB">http://toxnet.nlm.nih.gov/cgibin/sis/htmlgen?HSDB</a>. CIRC - CENTER INTERNATIONAL CANCER RESEARCH PROGRAMME. Available at: <a href="http://monographs.iarc.fr/ENG/Classification/index.php">http://monographs.iarc.fr/ENG/Classification/index.php</a>. IPCS - INTERNATIONAL PROGRAMME ON CHEMICALS SAFETY - INCHEM. Available at: <a href="http://www.inchem.org/">http://www.inchem.org/</a>. IUCLID - INTERNATIONAL UNIFORM CHEMICAL INFORMATION DATABASE. [SI]: European Chemicals Bureau. Available at: <a href="http://ecb.jrc.ec.europa.eu">http://ecb.jrc.ec.europa.eu</a>. NIOSH - International Chemical Safety Data Sheets. Available at: <a href="http://www.cdc.gov/niosh/">http://www.cdc.gov/niosh/</a>. NITE-GHS JAPAN - NATIONAL INSTITUTE OF TECHNOLOGY AND EVALUATION. Available at: <a href="http://www.safe.nite.go.jp/english/ghs_index.html">http://www.safe.nite.go.jp/english/ghs_index.html</a>. REACH - REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF THE SUBSTANCES CHEMICALS. Amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals. Available at: <a href="http://eurlex.europa.eu/LexUriServ/LexUriServ.do?ri=OJ:L:2009:164:0007:0031:EN:PDF">http://eurlex.europa.eu/LexUriServ/LexUriServ.do?ri=OJ:L:2009:164:0007:0031:EN:PDF</a>. SIRETOX/INTERTOX - INFORMATION SYSTEM ABOUT RISCOS FROM EXPOSIÇÃO QUÍMICA. Available at: <a href="http://www.intertox.com.br">http://www.intertox.com.br</a>. TOXNET - TOXICOLOGY DATA NETWORK. ChemIDplus Lite. Available at: <a href="http://chem.sis.nlm.nih.gov/">http://chem.sis.nlm.nih.gov/</a>.</p>
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**Other**

**More information**

ACM warns that managing chemicals requires prior awareness of the associated hazards for the user. It is the responsibility of the company using the product to promote training for its employees and contractors regarding the potential risks posed by the product.

In addition to the information on the safety data sheet, we refer you to the specific product 'Technical Data Sheet'.

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