

SAFETY DATA SHEET

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

Version number: 5

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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	LDPE, LLDPE, MDPE, HDPE
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	<u>POLYMERS RECYCLE d.o.o.</u> <u>Simonetija - Simonetia, 59</u> 52460 Kaldanija - Caldanja - Buje (HR) Croatia Tel +385 916122083 (HR) Tel +39 335 7339848 (IT)
Producer	<u>POLYMERS RECYCLE d.o.o.</u> <u>Simonetija - Simonetia, 59</u> 52460 Kaldanija - Caldanja - Buje (HR) Croatia Tel +385 916122083 (HR) Tel +39 335 7339848 (IT)



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CONTRIBUIRE ALLA SOSTENIBILITA' AMBIENTALE
CONTRIBUTE TO ENVIRONMENTAL SUSTAINABILITY

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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

Description	<p>The product is not classified as dangerous according to Regulation (EC) No. 1272/2008 (CLP).</p> <p>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.</p> <p>Environmental effects: The product is expected to have high persistence and slow degradability.</p>
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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-phrase
Proprietary blend at PE base	Mixture	<100%	Unclassified	-

More information on the substance

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)

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation	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.
Skin contact	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
Eye contact	Rinse with running water for at least 15 minutes, holding the eyelids open. Remove any contact lenses. Consult a doctor. Take this SDS.
Ingestion	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

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..



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SECTION 5: Fire prevention measures

5.1 Extinguishing media

Extinguishing media suitable	Carbon dioxide (CO ₂), 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

Equipment of protection for firefighters fire	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

Personal precautions, protective devices and procedures in case of emergency	<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

Environmental precautions	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

Preventive measures for handling	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.
General hygiene	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

Specific end uses	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

Precautionary measures techniques	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.
Eye protection / the face	Safety glasses with side protection. Avoid using contact lenses when the product is handled
Other protective devices of the skin	Suitable protective suit
Road protection respiratory	No specific respiratory protective equipment is required
Thermal hazards	Full suit with vents or other heat-resistant clothing
Exposure controls environmental	Do not discharge directly into the environment or sewer systems. The water used for extinguishing the fire can cause pollution



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance, color	Natural/Amber/White/Black/Green/Blue/Yellow
Appearance, physical condition	Solid
Partition coefficient: n-octanol/water	Not applicable
Vapor density	Not applicable
Relative densities	0.920 – 0.950 g/cm ³
Flammability (solids)	Non-flammable
Flammability (solids, gases)	Not applicable
Upper/lower limit of flammability or explosion	Not applicable
Odor	Not applicable
Vapor pressure	Not applicable
Explosive properties	Not applicable
Oxidizing properties	Not applicable
Initial boiling point and boiling range	Not applicable
Melting point / freezing point	Not applicable
Flash point	Not applicable
Odor threshold	Not applicable
Solubility	Soluble in xylene
Solubility in water	Not soluble in water
Autoignition temperature	350°C
Decomposition temperature	Not applicable
pH value	Not applicable
Evaporation rate	Not applicable
Viscosity	Not applicable



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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..



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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

<p>Disposal Considerations</p>	<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>
<p>Packaging</p>	<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>

SECTION 14: Transport information

14.1 UN number

UN number	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

<p>EU Regulations</p>	<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</p> <p>Restriction of Chemicals (REACH). Annex II SDS.</p> <ul style="list-style-type: none"> ■ REACH Annex XIV <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 $\geq 0.1\%$ w/w.</p> ■ REACH Annex XVII <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 $\geq 0.1\%$ w/w.</p> ■ REACH – Candidate List of Substances of Very High Concern for authorization <p>This product does not contain substances of very high concern (REACH Regulation, art. 57)</p>
<p>National standards</p>	<p>Observe national and local regulations</p>
<p>Other regulations, limitations and legal provisions</p>	<p>International Labor Organization C170 Chemicals Convention, from 25 June 1990: Occupational safety and health - Toxic substances and agents.</p> <p>UN Recommendations on the Transport of Dangerous Goods. Model Regulations, 17th edition, 2011</p> <p>Limitations: No usage limitations found</p>

15.2 Chemical safety assessment

Not applicable

SECTION 16: Other information

Main references bibliographic and data sources

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<http://www.intertox.com.br>. TOXNET - TOXICOLOGY DATA NETWORK.
ChemIDplus Lite. Available at: <http://chem.sis.nlm.nih.gov/>.

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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