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

* 1.1 Product identifier

Trade name/designation RecyPrime HDPE 006

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

Use of the substance/mixture

Polyethylene for industrial transformation into articles or goods

1.3 Details of the supplier of the safety data sheet

Supplier

Kunststoff Recycling Grünstadt GmbH
Nassaustraße 13-15
DE-65719 Hofheim am Taunus
Telephone +49.6122.8001-0
Telefax +49.6122.8001-50
E-mail office@krg.center
Website https://www.krg.center/

E-mail (competent person):
office@krg.center

* 1.4 Emergency telephone number

Kunststoff Recycling Grünstadt GmbH +49 6359 93748 - 0
Mon. - Fri. 7:00 - 18:00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Remark

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Additional information

The mixture is exempt from the labelling requirements of EC Regulation No. 1272/2008 [GHS].

Additional information

Heated material can cause burns. If spilled material is slippery. During processing electrostatic discharge can occur. Possible formation of electrostatic charges during handling. On heating the material fumes can irritate the eyes and mucous membranes.

2.3 Other hazards

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Description

This product is composed mainly of polyethylene (CAS No. 9002-88-4, not classified under Regulation (EC) No. 1272/2008).
This product is the product of a reprocessing operation and may contain fluctuating proportions of other polymer types.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

At normal ambient temperature, the product is not irritating, and there are no fumes. The actions listed below apply to critical situations (fire, improper use).
First aider: Pay attention to self-protection!
When in doubt or if symptoms are observed, get medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest.

Following skin contact

Wash with soap and water.
In case of skin contact with molten material, do not apply ice, but cool with ice water or under running water.
The cooled mass may not be detached from the skin. Immediately consult a doctor.

After eye contact

In case of contact with eyes rinse thoroughly with plenty of water (at least 15 minutes) and seek medical advice.
Remove contact lens.

Following ingestion

Rinse mouth immediately and drink plenty of water.
May cause constipation of the gastrointestinal tract. Do not administer laxatives.
Do not induce vomiting without medical advice.

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

Notes for the doctor

In case of chemical burns, treat like burns after after previous wound cleaning. If lavage is conducted, endotracheal and/or oesophageal control is recommended. If gastric lavage is indicated, the risk of lung aspiration must be weighed against the risk of toxicity. No specific antidote known. Treatment of exposure is to be focussed on the control of symptoms and clinical condition of the patient.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam
Extinguishing powder
Sand
Water mist
Carbon dioxide (CO2)

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated:
Hydrocarbons
Carbon dioxide (CO2)
Carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire and/or explosion do not breathe fumes.
In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Use respiratory protection when exposed to vapors from heated material.
Special danger of slipping by leaking/spilling product.
Wear protective equipment (see section 8).

For emergency responders

Keep people away and stay on the upwind side.
Use respiratory protection when exposed to vapors from heated material.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

For containment

If there is a risk of entry into the sewerage system, erect barriers and/or cover the sewerage system.

For cleaning up

Let molten material become hard.
Take up mechanically, placing in appropriate containers for disposal.

6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Correct storage and monitoring of dust generation are required for safe handling of this product. Pneumatic conveying and other mechanical processes may cause the formation of combustible dusts. To reduce the risk ofa dust explosion, equipment should be earthed and provided with earthing conductors. Dust accumulation should be prevented. Dust can ignite through static discharge . If applicable, specific information for handling containers can be found on the product label. Workers should be protected from possible contact with the molten resin. Do not allow molten product to get in the eyes, on the skin or on clothing. Avoid inhalation of vapours released during processing. Ensure adequate ventilation.

Advices on general occupational hygiene

When using do not eat, drink, smoke.
Wash hands before breaks and after work.
Please observe work hygiene regulations.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.
Storage temperature between -20 to +30 °C .

Materials to avoid

Oxidising agent
Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Avoid ignition sources. Connect and ground system parts in an electrically conductive manner.
Protect against:
Heat
UV-radiation/sunlight
Humidity

7.3 Specific end use(s)

Recommendation

See section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No data available

8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure

Sufficient ventilation and exhaustion.

Personal protection equipment

Eye/face protection

Safety goggles (EN 166)

Hand protection
Suitable material:
heat-resistant
The selection of a suitable glove depends from manufacturer to manufacturer not only on the material, but also on further quality criteria.

Body protection:
Protective clothing

Respiratory protection
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Suitable respiratory protection apparatus:
A2/P2 combination filter unit (DIN EN 141).

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state
Pellets/Granulat

Colour
translucent
white

Odour
odourless

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	132- 138 °C		
Boiling point or initial boiling point and boiling range	not determined		
flammability	not determined		
Lower and upper explosion limit	not determined		
Flash point			not applicable
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
pH	not determined		
Viscosity	not determined		
Solubility(ies)	Water solubility (20°C)		Immiscible
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	0.94- 0.96 g/cm³ (20°C)		
Relative vapour density	not determined		
particle characteristics	not determined		

9.2 Other information

Other safety characteristics

	Value	Method	Source, Remark
Explosive properties			The product is not explosive
Oxidising properties			The product is not oxidizing

Other information
none

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2 Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
At elevated temperatures, the product may decompose into carbon dioxide and water.

10.5 Incompatible materials

strong oxidants

10.6 Hazardous decomposition products

The type of resulting decomposition products depends on the processing temperature, air supply and the presence of other substances. Fumes and other decomposition products may be released during processing. Polymer fragments may be released at temperatures above the melting temperature. Fumes can be irritating.
Decomposition products can include but are not limited to: aldehydes. alcohols. organic acids.
Decomposition products may contain traces of: hydrocarbons.

* SECTION 11: Toxicological information

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

Acute toxicity

Practical experience/human evidence
Very low oral toxicity. Harmful effects are not expected if small amounts are swallowed. May cause constipation if swallowed.

Animal data

	Effective dose	Method,Evaluation	Source, Remark
Acute oral toxicity	not determined		
Acute dermal toxicity	not determined		
Acute inhalation toxicity	not determined		

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

Skin corrosion/irritation

Practical experience/human evidence
Escaping gases and vapors may irritate your eyes, skin and nose.

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

Serious eye damage/irritation

Practical experience/human evidence
Solids or dust may cause corneal injury due to mechanical action. Elevated temperatures may result in vapor concentrations sufficient to cause eye irritation. Effects may include discomfort and redness.

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

* **Sensitisation to the respiratory tract**

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

Skin sensitisation

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

Germ cell mutagenicity

not determined

Carcinogenicity

not determined

Reproductive toxicity

not determined

Overall Assessment on CMR properties

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

STOT-single exposure

STOT SE 1 and 2

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

STOT SE 3

Irritation to respiratory tract

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

Narcotic effects

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

STOT-repeated exposure

Assessment/classification

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

Aspiration hazard

Assessment/classification

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

11.2 Information on other hazards

No data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	not determined		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	not determined		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	not determined		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

Assessment/classification

No acute toxicity is expected, but the material may have adverse effects on waterfowl or aquatic life by mechanical action if ingested in pellet or granular form.

12.2 Persistence and degradability

Assessment/classification

The product is hardly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

12.3 Bioaccumulative potential

Assessment/classification

Due to the relatively high molecular weight (MG > 1000), no bioconcentration is expected.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			The substance/this mixture does not contain any components, which have endocrine disrupting properties in quantities of 0.1% or more, in accordance with REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605.

12.7 Other adverse effects

Additional ecotoxicological information

Additional information

The product is not biodegradable. Do not discharge into the environment. The product is not toxic, but small parts may have effects on aquatic organisms.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product

Dispose of waste according to applicable legislation.

Appropriate disposal / Package

Dispose of waste according to applicable legislation.

Other disposal recommendations

Do not allow to enter into surface water or drains.

Remark

The material can be recycled according to the current regulations. The recycling has to be done by an authorized recycler. Do not discharge in drainage systems, streams, wells or environment in general. Incineration and disposal must be in accordance with EU directives, but also be carried out according to national and state-related laws. Check before reuse. Empty containers could (if they are not contaminated) be re-used or used either for internal materials.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	-	-	-
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	-	-	-

14.6 Special precautions for user

No data available

14.7 Maritime transport in bulk according to IMO instruments

not applicable

All transport carriers

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

SECTION 15: Regulatory information

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

No data available

15.2 Chemical Safety Assessment

A material safety assessment was not conducted.

SECTION 16: Other information

Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Key literature references and sources for data

Subcontractors' data sheet.

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The mixture is to be produced on the basis of the available hazard data of the ingredients, as defined in the classification criteria for mixtures for each hazard class in Annex I to Regulation (EC) No 1272/2008, classified.

Additional 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.

Indication of changes

* Data changed compared with the previous version