

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

1.1. Product identifier

Product name	: Veolia rHDPE Pellet
Substance name	: High density polyethylene
Type of product	: Polymer
CAS-No.	: 74-85-1 (ethylene)
EC No.	: 200-815-3 (ethylene)
REACH Reg. No.	: 01-2119462827-27-0446

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

Relevant identified uses	: Manufacture of plastics products, including compounding and conversion
Uses advised against	: No additional information available

1.3. Details of the supplier of the safety data sheet

Only representative details	: Blue Frog Scientific EURL 967 Route de la La Plaine 26400 Chabrilan France +33 4 75 56 50 15 or@bluefrogscientific.com
Manufacturer	: Veolia ES (UK) Limited
Branch	: Veolia Plastics
Address	: 16 Choats Road RM9 6LF United Kingdom
Telephone	: +44 (0) 203 567 5390
E-mail (competent person)	: uk.veolia.plastics.sds@veolia.com

1.4. Emergency telephone number

Emergency number	: +44 (0) 203 567 5390 Only available during office hours: 9AM – 5PM (UK time)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. *Classification according to Regulation (EC) No. 1272/2008*
Not classified

2.2. Label elements

2.2.1. *Labelling according to Regulation (EC) No. 1272/2008*
No labelling applicable

2.3. Other hazards

Contact with molten plastic can cause severe thermal burns. Fumes and vapours from molten plastic may cause irritation of the respiratory tract. Handling this product may result in electrostatic accumulation.

SECTION 3: Composition/information on ingredients

3.1. Substances

<i>Product identifier</i>	<i>%</i>	<i>Classification according to Regulation (EC) No. 1272/2008</i>
Ethylene (as polymer) CAS No: 74-85-1	100	Not classified

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : First aid responders should pay attention to self-protection from associated hazards
- Following inhalation : Move person to fresh air
- Following skin contact : Cool skin rapidly with cold water after contact with molten plastic
- Following eye contact : Flush eyes thoroughly with water for several minutes
- Following ingestion : Rinse mouth out with water

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

- Following inhalation : Irritation to the respiratory tract
- Following skin contact : Thermal burns on contact with molten plastic
- Following eye contact : Eye irritation
- Following ingestion : No symptoms expected

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

For severe burns, seek immediate medical attention

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water, carbon dioxide (CO₂), powder or foam
- Unsuitable extinguishing media : Do not use water jet

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not classified as flammable
During a fire, smoke may contain combustion products of varying composition which may be toxic and/or irritating
- Explosion hazard : Dust may form flammable and explosive mixture with air
- General measures : Avoid dust formation

5.3. Advice for firefighters

- Firefighting instructions : Evacuate the personnel away from the fumes
- Protection during firefighting : Appropriate self-contained breathing apparatus may be required
- Other information : Do not allow into drains or water courses or dispose of where ground or surface waters may be affected

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel : Spilled material may cause a slipping hazard; use appropriate safety equipment. Contain spillage (see Section 6.3) to minimize the impact to the environment
- For emergency personnel : No additional precautions

6.2. Environmental precautions

Avoid dust formation. Do not allow into drains or water courses or dispose of where ground or surface waters may be affected

6.3. Methods and material for containment and cleaning up

- Containment : Cover drains if necessary
- Cleaning up : Sweep, shovel or vacuum spills into appropriate container for disposal
- Other information : Do not wash into drains

6.4. Reference to other sections

- See Section 1 for emergency contact information
- See Section 8 for personal protective equipment information
- See Section 13 for waste disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with hot or molten plastic
- Avoid dust formation
- Take precautionary measures against static discharge

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in accordance with good manufacturing practices
- Storage area : Store in a cool dry place away from direct sunlight or ultraviolet light
- Special rules on packaging : Keep container closed when not in use
- Packaging materials : Keep in original packaging, or store in aluminium or stainless steel vessels

7.3. Specific end use(s)

For industrial use

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No OELs according to ECHA Inventories

8.2. Exposure controls

- Appropriate engineering controls : Either local exhaust or general room ventilation is usually required when molten
- Materials for protective clothing : Not applicable
- Hand protection : Safety gloves (EN374-3 Level 1 or better) or insulated gloves (EN407-2 Level 2) when handling hot plastic
- Eye protection : Safety glasses (EN166 F category or better)
- Skin and body protection : Long sleeved clothing
- Respiratory protection : In the event of severe dust formation use respirator with filter (EN143 P1 or better)
- Environmental exposure controls : Do not allow into drains or water courses or dispose of where ground or surface waters may be affected

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Off-white, natural
Odour	: Mild odour of essential oils
Melting point/freezing point	: 105-140°C
Initial boiling point and boiling range	: No data available
Flammability	: No data available
Upper and lower explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
pH	: Not applicable
Kinematic viscosity	: Not applicable
Solubility	: Insoluble in water
Partition coefficient n-octanol/water (log value)	: No data available
Vapour pressure	: No data available
Relative density	: 0.95-1
Relative vapour density	: Not applicable
Particle characteristics	: Granular, 4 mm diameter

9.2. Other information

No additional information

SECTION 10: Stability and reactivity

10.1. Reactivity

Not applicable

10.2. Chemical stability

Stable at ambient conditions

10.3. Possibility of hazardous reactions

Dust may form explosive mixture in air

10.4. Conditions to avoid

Overheating above 300°C

10.5. Incompatible materials

Strong oxidising agents

10.6. Hazardous decomposition products

On burning, release of carbon monoxide, carbon dioxide, organic acids, alcohols, aldehydes and polyaromatic hydrocarbons

SECTION 11: Toxicological information

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

Acute toxicity	: Very low toxicity if swallowed
Skin corrosion/irritation	: Very low skin irritation
Serious eye damage/irritation	: May cause irritation on contact
Respiratory or skin sensitisation	: Vapours from thermal processing may cause respiratory irritation
Germ cell mutagenicity	: Not expected

Carcinogenicity	:	Not expected
Reproductive toxicity	:	Not expected
STOT-single exposure	:	Not applicable
STOT-repeated exposure	:	Not applicable
Aspiration hazard	:	Not expected
Information on likely routes of exposure	:	Skin contact. May cause skin irritation of the user if handling directly and has sensitive skin
Symptoms related to the physical, chemical and toxicological characteristics	:	No adverse health effects known. No further information available
Delayed and immediate effects as well as chronic effects from short and long-term exposure	:	Not expected
Interactive effects	:	Not expected
Absence of specific data	:	No further information available
Mixtures	:	Not applicable
Mixture versus substance information	:	Not applicable

11.2. Information on other hazards

Endocrine disrupting properties	:	Not applicable
Other information	:	No further information available

SECTION 12: Ecological information

12.1. Toxicity

Acute (short-term) toxicity

Fish	:	Not expected
Crustaceans	:	Not expected
Algae and aquatic plants	:	Not expected
Other organisms	:	Not expected

Chronic (long-term) toxicity

Fish	:	Not expected
Crustaceans	:	Not expected
Algae and aquatic plants	:	Not expected
Other organisms	:	Not expected

12.2. Persistence and degradability

Abiotic degradation	:	Not readily degradable
Physical- and photo-chemical elimination	:	Can be damaged in direct sunlight over long periods of time
Biodegradation:	:	Not expected

12.3. Bioaccumulative potential

Not a bioaccumulative

12.4. Mobility in soil

Mobility in soil	:	No mobility in soil
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Surface tension : Material is expected to float in aquatic environments

12.5. Results of PBT and vPvB assessment

Not classified as PBT or vPvB

12.6. Endocrine disrupting properties

Not applicable

12.7. Other adverse effects

Persistent when released to environment

SECTION 13: Disposal considerations

12.1. Waste treatment methods

Product and packaging disposal : The polymer is widely recyclable and reusable. The packaging is not suitable for reuse and may be recycled.
Waste treatment-relevant information : If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. EWC 19 12 04.
Sewage disposal-relevant information : Do not dispose of into sewers
Other disposal recommendations : No further information

SECTION 14: Transport information

Not classified as dangerous for transport

14.1. UN 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

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH candidate list : Not listed
REACH Annex XIV : Not listed
REACH Annex XVII : Not listed

15.2. Chemical safety assessment

The substance is not classified as hazardous therefore no CSA required

SECTION 16: Other information

16.1. Indication of changes

All changes made from the previous version have been highlighted

Purpose of changes : Safety data sheet has been revised to meet the latest requirements of REACH Annex II

16.2. Abbreviations and acronyms

CAS-No : Chemical Abstracts Service number
CSA : Chemical Safety Assessment
EC : European Community
EC No : European Inventory of Existing Commercial Substances or European List of notified Chemical Substances number
ECHA : European Chemicals Agency
EN : European Standard
EU : European Union
EWC : European Waste Category
OEL : Occupational Exposure Limit
PBT : Persistent, Bioaccumulative and Toxic substance
PPE : Personal Protective Equipment
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
STOT : Specific Target Organ Toxicity
UN : United Nations
vPvB : Very Persistent and Very Bioaccumulative

16.3. Key literature references and sources for data

This safety datasheet was compiled from internal and published external data sources

16.4. Other information

Document reference number : SDS-001-07
Date of issue : 01/05/2023

This information is based on current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.