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SECTION 1: IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Product Identifier:

Label identifier / product name: polyethylene terephthalate, PET, NEOPET, Aqua NEOPET 76, NEOPET 78, NEOPET 80, NEOPET 82, NEOPET 84, NEOPET 82 FR, NEOPET 84 FR, NEOPET 82FR PLUS, NEOPET 84FR PLUS, NEOPET 82 HF, NEOPET AMO, NEOPET AMO FR, NEOPET AMO HF, Ultra NEOPET.

CAS No.: 25038-59-9

EC No.: N/A

REACH registration No.: N/A

Molecular Hill: $(C_{10}H_8O_4)_n$

Polyethylene terephthalate (PET) is a polymer and exempted from Registration according to the Article 2 (9) of Regulation EC 1907/2006 REACH.

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

PET (polyethylene terephthalate) for packaging, film, fibers, other product manufacturing.

1.3 Details of the supplier of the safety data sheet:

Manufacturer: UAB NEO GROUP
Industrijos St. 2, LT-95346 Rimkai
Dovilai Eldership, Klaipeda District,
Lithuania

Phone number +370 46 466 710

Fax +370 46 466 711

e-mail msds@neogroup.eu

www.neogroup.eu

1.4 Emergency telephone numbers:

Lithuanian Poison Control and Information Office:

+370 5 236 2052 or +370 687 53 378

Main emergency phone number: (+370) 112 (24h)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Substance not classified as hazardous. Under normal conditions, this product is not hazardous.

2.1.2 Additional information:

Additional information about accidental release measures and exposure control and personal protection see in the 6, 8 paragraphs.

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2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 [CLP]: not required

2.3 Other hazards:

Spilled pellets create slipping hazard. Molten plastic can cause severe thermal burns. Fumes produced during the thermal processing of polymer melt may cause eye, skin and respiratory tract irritation.

Not applicable. The substance is not PBT / vPvB.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Components name	CAS No	EC No	Index No	REACH Registration No	Content, % (wt.)	Classification according to Regulation (EC) No 1272/2008 (CLP)
Polyethylene terephthalate (PET)	25038-59-9	N/A	N/A	N/A	100%	not classified as hazardous

Additional information on components: NEOPET resins are plastic intermediate plastic materials manufactured from terephthalic acid (PTA), isophthalic acid (IPA), monoethylene glycol (MEG) and diethylene glycol (DEG) monomers and complies with COMMISSION REGULATION (EU) No 10/2011 of 14 January 2011 and its subsequent amendments on plastic materials and articles intended to come into contact with food. Composition and production process of NEOPET products comply with Framework Regulation No 1935/2004 and COMMISSION REGULATION (EU) 2023/2006 on Good Manufacturing Practices on materials and articles intended to come into contact with food, as applicable to plastic intermediate materials.

3.2 Mixtures: Not applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eyes contact: Mechanical injury to eyes is possible. Seek doctor's advice if necessary.

Skin contact: If melted resin comes in contact with skin, the affected place should be washed thoroughly with a plenty of water. Put a sterile bandage on the wound. If burns occur, seek medical advice immediately. Note: never try to take away substance melted to the wound.

Inhalation: After inhalation of vapor from melted substance: Remove person to fresh air as soon as possible. Drink water to clean the mouth and blow the nose to remove the dust. Upon evidence of breathing problems, take a person to the first aid station to provide medical aid.

Ingestion: No toxicity hazard. This substance is biologically inactive. If feel unwell, doctor's advice is recommended.

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SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Water aerosol, water/foam, CO₂, A or B class fire extinguishers, AB class fire extinguishers, powder extinguishers.

5.2 Special hazards arising from the substance or mixture

During a fire, smoke may contain the original material in addition to combustion products of varying composition, which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

Do not stay in dangerous area without personal breathing apparatus.

Large concentration of dust causes explosion risk. Polyesters can ignite if exposed to fire.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Procedures to apply to substance spread isolation:

Sweep small quantities of spillage and place them into appropriate container. Stepping or walking on chips or pellets may cause falling; avoid accumulation of chips or pellets on the floor or passages. Collect large pieces.

Cleaning procedures: Contain with shovel or sweep, use special vacuum cleaner to collect small particles/dust. Avoid producing dust clouds. Place into utilization or disposal containers.

SECTION 7: HANDLING & STORAGE

7.1 Precautions for safe handling

Dust and fumes produced during the handling and processing of the product shall be removed by means of effective exhaust ventilation. The friction of product particles can produce static electricity, therefore earthing shall be installed where necessary.

7.2 Conditions for safe storage, including any incompatibilities

The product shall be protected from direct sunlight, UV light, high temperature and rain. Packages and containers shall be closed when stored. For more information, please refer to "Guideline for use of flexible containers".

7.3. Specific way(s) of usage:

Due to wide range of applications, there are no specific usage instructions.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

After pouring out PET pellets appears slipping hazard.

Reference parameters for occupational exposure limit (OEL) factors:

Dust:

Threshold limit value (TLV): temporary TLV (TWA 8 hours) is recommended to apply according to nontoxic gas TLV:

-10 mg/m³ all dust.

-5 mg/m³ inhalation dust.

Acetaldehyde (CAS 75-07-0) (produced during combustion and thermal decomposition process)

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ACGIH: C 25 ppm;
OSHA: 100 ppm TWA; 180 mg/m³ TWA;
150 ppm STEL; 270 mg/m³ STEL.

Respiratory system protection:

Necessary when vapor/dust is produced (vapor is produced when polymer is heated)

Eyes protection:

Necessary when hot melted substance is handled. Wear safety eyewear with side shields and heat-resistant face shields.

Hands protection:

Necessary when hot melted substance is handled. Hot-resistant gloves shall be worn.

Skin protection:

Protective clothes should be selected to meet the requirements of a definite work place, by taking into consideration the concentrations and quantities of dangerous substances to be handled. The chemical resistance of protective clothes shall be found out by contacting the supplier.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Physical state: solid substance under normal conditions
Color: clear or naturally mat, depending on added color agent
Odor: odorless

pH	does not apply	
Boiling point	destruction at >380	°C
Flash point	-	°C
Density	1.34	g/cm ³
Melting point	242-270	°C
Self-ignition point	500	°C
Solubility in water	insoluble	
Viscosity (intrinsic viscosity IV)	0,58-0,84	dl/g
Vapor pressure	(20 °C) does not apply	Pa
Dust explosiveness class	1	

SECTION 10: STABILITY & REACTIVITY

10.1. Chemical stability: stable in normal ambient conditions.

10.2. Conditions: to avoid high temperature, flame and other sources of ignition. Temperatures above 150 °C and/or long retention time shall be avoided when the product is out of the technological process as the product degradation and thermal decomposition can start.

10.3. Substances to avoid: strong oxidizing agents, mineral acids, organic solvents.

10.4. Hazardous decomposition products: during heating process hazardous gas is produced. The composition of the gas depends on the conditions of heating process.

10.5. Hazardous polymerization: unknown.

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SECTION 11: TOXICOLOGICAL INFORMATION

Acute intoxication: No

Additional toxicological information: The substance proved to be nontoxic during standard toxicological and eco-toxicological tests and therefore is considered to be biologically inactive.

Additional data: The product to be handled with carefulness pertaining to bulk substances.

SECTION 12: ECOLOGICAL INFORMATION

Stability/degradability:

Very minor degradability under impact of UV light.

Eco-toxicity:

No signs of hazardous effect on the environment.

Aquatic toxicity:

Insoluble, nontoxic solid substance (no hazardous effect in water).

SECTION 13: DISPOSAL CONSIDERATIONS

Product:

There are no unified EU instructions on the disposal of chemicals and waste. Chemical waste is usually treated as special type of waste. The disposal of this waste in EU countries is regulated by appropriate laws and regulations. We recommend contacting responsible institutions or certified waste disposal companies which could provide information on the disposal of special waste.

Packing:

The disposal shall be carried out in accordance with approved instructions. Contaminated packing shall be processed in the same way as the substance. Unless other official instructions are given, uncontaminated packing can be regarded as household waste or processed.

SECTION 14: TRANSPORT INFORMATION

Transport regulations do not apply.

SECTION 15: REGULATORY INFORMATION

Product is not classified as hazardous according with (EC) 1907/2006 REACH 2.9 article and ES 67/548/EEB.

SECTION 16: OTHER INFORMATION

The information provided in this document is based on the present state of our knowledge. The product is described with regard to safety requirements. The document shall not be considered a guarantee of the product properties.

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General update of the document was made to comply with requirements presented in the regulations (EC) No 1272/2008 of European Parliament and Council.

End of safety data sheet