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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, CYCLE, Aqua NEOPET CYCLE 76, NEOPET CYCLE 78, NEOPET CYCLE 80, NEOPET CYCLE 82, NEOPET CYCLE 84, NEOPET CYCLE 82 FR, NEOPET CYCLE 84 FR, NEOPET CYCLE 82FR PLUS, NEOPET CYCLE 84FR PLUS, NEOPET CYCLE 82 HF, NEOPET CYCLE AMO, NEOPET CYCLE AMO FR, NEOPET CYCLE AMO HF, Ultra NEOPET CYCLE

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 Information Office:
+370 5 236 2052 (24 h)
Main emergency phone number: 112 (24 h)

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:

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

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.
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 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.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Eyes contact: Mechanical injury to eyes is possible. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
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: move 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.

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Ingestion: No toxicity hazard. This substance is biologically inactive. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If symptoms occur, get medical attention.
Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

4.2. Most important symptoms and effects, both acute and delayed
Not known significant effects or critical hazards. Particles / dust are mechanically irritating to eyes. Molten polymer will adhere to the skin and can cause severe burn. If necessary, treat symptomatically.

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media
Suitable extinguishing media: water spray/aerosol, water/foam, CO_2, A or B class fire extinguishers, AB class fire extinguishers, powder extinguishers.
Not suitable: do not use water jet.

5.2. Special hazards arising from the substance or mixture
No specific fire or explosion hazard. Low fire hazard. Only powdered material may form flammable / explosive dust-air-clouds mixture. High voltage static electricity build-up and discharge must be avoided when significant quantities of powdered material are present. 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.
Polyesters can ignite if exposed to fire.

5.3. Advice for firefighters
Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident, if there is a fire (solid polymer burns only with difficulty). No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters: Fire-fighters must wear suitable personal protective equipment (clothing, helmet, protective boots, gloves conforming to EU standard EN 469), and self-contained breathing apparatus (SCBA).
Fire-fighting measures: Use self-contained apparatus if respirable dust and/or fumes/vapors occur. Use water spray to cool and disperse vapors and protect personnel.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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6.1.1. For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unprotected personnel from approaching or entering. Do not touch or walk through spilled material. Wear suitable personal protective equipment.

6.1.2. For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in 6.1.1. "For non-emergency personnel".

Procedures to apply to substance spread isolation:
Sweep small quantities of spillage and place them into appropriate container. Stepping or walking on pellets may cause falling; avoid accumulation of 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.

6.2. Environmental precautions
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up
Small spill: Vacuum or sweep spilled material and place in a designated, labeled waste container. Disposal handling must comply with the relevant environmental protection and waste disposal legislation and local authority requirements.
Large spill: Prevent entry into sewers, watercourses and confined areas. Vacuum or sweep spilled material and place in a designated, labeled waste container. Disposal handling must comply with the relevant environmental protection and waste disposal legislation and local authority requirements.

6.4. Reference to other sections
See Section 1 for emergency contact information.
See Section 8 for information on suitable personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: HANDLING & STORAGE

7.1. Precautions for safe handling
Wear suitable personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is stored, handled and processed. Wash hands and face before eating, drinking and smoking. Remove any contaminated clothing and personal protective equipment before entering eating area. 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
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed, sealed kept upright until ready for use. Do not

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store in unlabeled containers. Use appropriate containment to avoid environmental contamination. 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.
Do not use in medical applications involving permanent implantation in the human body.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters
Occupational exposure limits: No exposure limit value established (in case of 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.).
During processing of PET (during combustion and thermal decomposition process) small amount of acetaldehyde, AA (CAS 75-07-0) is generated. Customers are advised to check exposure to workers and apply current workplace exposure limits. There are workplace exposure limits for aldehydes and the customer should ensure they use the measures appropriate to their workplace.
Derived effect levels: Not applicable
Predicted effect concentrations: Not applicable

8.2. Exposure controls

8.2.1. Appropriate engineering controls
Use of local exhaust ventilation system (or other engineering controls), efficient to maintain airborne contaminants levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.

8.2.2. Individual protection measures, such as personal protective equipment
After pouring out PET pellets appears slipping hazard.
Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: Goggles, face shield or other full-face protection should be worn if there is a risk of direct exposure to aerosols or splashes or when material is handled hot.
Hand protection: chemical-resistant, impervious gloves complying with an approved standard should always be worn when handling chemical products if a risk assessment

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indicates this is necessary. Thermal isolating gloves should be used when material is handled hot mass.

Body protection: wear work clothing with long sleeves. Protective/thermal insulating gloves as above.

Other skin protection: suitable approved protective footwear.

Respiratory protection: respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. Dust protection mask or self-contained breathing apparatus. Do not breathe fumes evolved. Use an approved air-purifying respirator when vapors are generated at increased temperatures or when dust or mist is present. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process.

8.2.3. Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	solid substance under normal conditions
Colour	clear or white, depending on added color agent
Odour	odorless
Melting point	242-270°C
Boiling point	destruction at >380°C
Flammability	slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. Non-flammable in the presence of the following materials or conditions: shocks and mechanical impacts, oxidizing materials and reducing materials.
Lower and upper explosion limit	does not apply
Flash point	does not apply
Auto-ignition temperature	does not apply
Decomposition temperature	does not apply
pH	does not apply
Kinematic viscosity	does not apply
Solubility	partially soluble in the following materials: acetone. Insoluble in the following materials: cold water and hot water.
Vapour pressure	does not apply
Density	1,34 g/cm^3

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Relative vapour density	does not apply
Particle characteristics	pellets weight 1,7±0,1 g/100 pellets (WN-B010-9038 D)
Viscosity (intrinsic viscosity IV)	0.58-0.84 dl/g

9.2. Other information
Not applicable

SECTION 10: STABILITY & REACTIVITY

10.1. Reactivity
No specific test data related to reactivity available for this product or its ingredients. Stable/inert under normal use condition.

10.2. Chemical stability
Stable in normal ambient conditions.

10.3. Possibility of hazardous reactions
Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid
Avoid high temperature, flame and other sources of ignition, dust concentration with static discharges. 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.

10.5. Incompatible materials
Strong oxidizing agents, mineral acids, organic solvents (acetic anhydride, acetone, aniline, benzene, chloroform, chromic acid, cyclohexanone, dimethylformamide, dioxin, ethyl acetate, methyl ethyl ketone, methylene chloride, phenol, tetrahydrofuran, trichloroethylene, triethanolamine, caustic soda).

10.6. Hazardous decomposition products
During heating process hazardous gas is produced. The composition of the gas depends on the conditions of heating process.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity: Material is not hazardous or toxic at ambient conditions.
Skin corrosion/irritation: May cause physical abrasion in contact with skin. Molten polymer will adhere to the skin causing deep thermal burns.
Serious eye damage/irritation: May cause physical abrasion in contact with eyes.
Respiratory or skin sensitization: Not known
Germ cell mutagenicity: Not applicable
Carcinogenicity: Not applicable
Reproductive toxicity: Not applicable
STOT-single exposure: Not applicable
STOT-repeated exposure: Not applicable
Aspiration hazard: Not applicable

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11.2. Information on other hazards
Not applicable

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity
No signs of hazardous effect on the environment. Insoluble, nontoxic solid substance (no hazardous effect in water).

12.2. Persistence and degradability:
Very minor degradability under impact of UV light. Material is solid with low volatility.

12.3. Bioaccumulative potential
No signs of hazardous effect on the environment.

12.4. Mobility in soil
Not applicable

12.5. Results of PBT and vPvB assessment
Not applicable. The substance is not PBT and vPvB.

12.6. Endocrine disrupting properties
Not applicable

12.7. Other adverse effects
Not applicable

SECTION 13: DISPOSAL CONSIDERATIONS

The information in this section contains general advice and guidance. Disposal handling must comply with the relevant environmental protection and waste disposal legislation and local authority requirements.

13.1. Waste treatment methods
Product: this product is not considered as hazardous waste, based on EU Directive 91/689. Like most thermoplastics, this product can be recycled. Recycling when possible is preferred to disposal or incineration. Disposal handling must comply with the relevant environmental protection and waste disposal legislation and local authority requirements.
Packing: waste packaging should be taken for recycling or waste disposal. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal handling must comply with the relevant environmental protection and waste disposal legislation and local authority requirements. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number
Not hazardous for transport.

14.2. UN proper shipping name
Not hazardous for transport.

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14.3. Transport hazard class(es)
Not hazardous for transport according ADR/RID, AND, IMDG, IATA.

14.4. Packing group
Not hazardous for transport according ADR/RID, AND, IMDG, IATA.

14.5. Environmental hazards
Not hazardous for transport according ADR/RID, AND, IMDG, IATA.

14.6. Special precautions for user
Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Transport regulations do not apply.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Non-hazardous product, according to EU Regulations 1907/2006, 1272/2008 (REACH, CLP).
SVHC (substances of very high concern) according to Article 59(10) the REACH Regulation: none of the components are listed.

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

End of safety data sheet