

Safety Data Sheet conforms to regulations (EC) No 1907/2006 of European Parliament and Council	Sheet consists Page 1 of 5 pages Date of issue: October 1, 2005 Last revision date: September 1, 2008
Name of chemical substance: polyethyleneterephthalate	

## SAFETY DATA SHEET

Product – NEOPET

### 1. Identification of chemical substance/preparation and of the company/undertaking

- 1.1. Name of chemical substance: polyethyleneterephthalate
- 1.2. Intended use of chemical substance: PET (Polyethyleneterephthalate) is a polymer used in the production of packing, film and fibers
- 1.3. Name of company/undertaking:  
 CJSC “NEO GROUP”  
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 Klaipėda Region, Lithuania  
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- 1.4. Emergency telephone: -

### 2. Hazards identification

No warning about hazards.  
 The substance is not classified as dangerous according to Directives 67/548/EEC and 1999/45/EC.

Under normal conditions this product is not hazardous.

### 3. Composition/information on components

Synonyms/abbreviation: poly(ethylene terephthalate), PET, PETE, PETP, PET-P  
 CAS No: 25038-59-9  
 EINECS/ELINCS No: no  
 Molecular weight: -  
 Formula Hill:  $(C_{10}H_8O_4)_n$   
 Additional information on components: -

Safety Data Sheet conforms to regulations (EC) No 1907/2006 of European Parliament and Council	Sheet consists Page 2 of 5 pages Date of issue: October 1, 2005 Last revision date: September 1, 2008
Name of chemical substance: polyethyleneterephthalate	

#### 4. First aid measures

##### 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.

##### 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.

##### Eyes contact:

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

##### Ingestion:

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

#### 5. Fire-fighting measures

##### Recommended fire-fighting measures:

Water aerosol, water/foam, CO<sub>2</sub>, A or B class fire extinguishers, AB class fire extinguishers, powder extinguishers.

##### Special hazards:

Polyesters can ignite if exposed to fire.

Large concentration of dust causes explosion risk.

The composition of combustion products depends on combustion conditions. Substances hazardous to health (toxic, corrosive, carcinogenic) can be produced in combustion process.

##### Special protective equipment used in fire-fighting process:

Do not stay in dangerous area without personal breathing apparatus.

#### 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.

Safety Data Sheet conforms to regulations (EC) No 1907/2006 of European Parliament and Council	Sheet consists Page 3 of 5 pages Date of issue: October 1, 2005 Last revision date: September 1, 2008
Name of chemical substance: polyethyleneterephthalate	

## 7. Handling and storage

### Handling:

Dust and smoke produced in manufacturing process 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.

### Storage:

The product shall be protected from direct sunlight, UV light, high temperature and rain. Packages and containers shall be closed when stored.

### Specific way(s) of usage:

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

## 8. Exposure control and personal protection

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/m<sup>3</sup> all dust.
- 5 mg/m<sup>3</sup> inhalation dust.

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

ACGIH: C 25 ppm

OSHA: 100 ppm TWA; 180 mg/m<sup>3</sup> TWA

150 ppm STEL; 270 mg/m<sup>3</sup> 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.

Safety Data Sheet conforms to regulations (EC) No 1907/2006 of European Parliament and Council	Sheet consists Page 4 of 5 pages Date of issue: October 1, 2005 Last revision date: September 1, 2008
Name of chemical substance: polyethyleneterephthalate	

<b>9. Physical and chemical properties</b>			
Form:	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	370	°C	
Density	1.34	g/cm <sup>3</sup>	
Melting point	242-270	°C	
Self-ignition point	500	°C	
Solubility in water	Insoluble		
Viscosity (specific viscosity IV)	0,58-0,84	dl/g	
Vapor pressure	(20 °C)	does not apply	hPa
Dust explosiveness class	1		

<b>10. Stability and reactivity</b>
<u>Conditions to avoid:</u>
High temperature, flame, 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 takes place then.
<u>Substances to avoid:</u>
Strong oxidizing agents, mineral acids, organic solvents.
<u>Hazardous decomposition products:</u>
In heating process hazardous gas is produced. The composition of the gas depends on the conditions of combustion process.

<b>11. Toxicological information</b>
<u>Acute intoxication:</u>
No
<u>Additional toxicological information:</u>
The substance proved to be nontoxic during standard toxicological and eco-toxicological tests and therefore is considered to be biologically inactive.
<u>Additional data:</u>
The product to be handled with carefulness pertaining to bulk substances.

Safety Data Sheet conforms to regulations (EC) No 1907/2006 of European Parliament and Council	Sheet consists Page 5 of 5 pages Date of issue: October 1, 2005 Last revision date: September 1, 2008
Name of chemical substance: polyethyleneterephthalate	

## 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).

## 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.

## 14. Transport information

Transport regulations do not apply.

## 15. Regulatory information

Labels as per directives 67/548/EEC and 1999/45/EC are not required. Additional national legislation can apply on this issue.

Hazard symbols: -

R-phrases: -

S-phrases: -

## 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 regulations (EC) No 1907/2006 of European Parliament and Council.