Polyethylene
NAV 199-1

1. Identification of the substance/mixture and of the company/undertaking

Trade name: NAV 199-1
Material use: Raw material for plastics industry
Supplier: Borealis GmbH
E-mail address: product.safety@borealisgroup.com

2. Hazards identification

Classification of the substance or mixture
The product is not classified as hazardous according to Regulation (EC) No 1272/2008 and its amendments.

Label elements
Not a hazardous substance or mixture. No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Other hazards
The product burns, but is not classified as flammable. Dust from the product gives a potential risk for dust explosion.This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.During crosslinking reaction in combination with catalyst masterbatch: methanol (Flam. Liq. 2; H225, Acute Tox. 3; H301, Acute Tox. 3; H311, Acute Tox. 3; H331, STOT SE 1; H370 - see chapter 16) may be released.

3. Composition/information on ingredients

The product is a polyethylene polymer.
It contains postconsumer recycled polymer.
Based on the information provided by our suppliers the product contains no substance classified as hazardous in concentrations which should be taken into account according to EC legislation.

4. First aid measures

If inhaled: Move to fresh air in case of accidental inhalation of vapors or decomposition products.

In case of skin contact: If molten material comes in contact with the skin, cool with plenty of water. DO NOT remove solidified product, as removal could result in severe tissue damage. Obtain medical attention.

Most important symptoms and effects, both acute and delayed:
Inhalation of dust may irritate the respiratory tract. Prolonged inhalation of high doses of decomposition products may give headache or irritation of the respiratory tract.

Methanol: Toxic by inhalation, in contact with skin and if swallowed. Very serious irreversible effects through inhalation, in contact with skin and if swallowed.

5. Fire-fighting measures

Suitable extinguishing media: Water in spread jet, dry chemicals, foam or carbon dioxide.
Specific hazards during fire fighting: Principal toxicant in the smoke is carbon monoxide.

6. Accidental release measures

Vacuum or sweep up spill. All spill of material must be removed immediately to prevent slipping accidents. Recycle or dispose loose material properly. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

Ecoplast Kunststoffrecycling GmbH | Untere Aue 21 | A-8410 Wildon | Austria
Tel. +43(0)3182-3355 | Fax +43(0)3182-3355-18
info@ecoplast.com | www.ecoplast.com

It is recommended to implement systems and practices (such as Operation Clean Sweep®) to prevent accidental release of plastics in to the environment.

7. Handling and storage

Advice on safe handling: During processing and thermal treatment of the product, small amounts of volatile hydrocarbons may be released. Avoid inhalation of dust and decomposition fumes. Provide adequate ventilation. Local exhaust ventilation or additional personal protective equipment (PPE) may be necessary.

Advice on protection against fire and explosion: Dust from the product represents a risk for dust explosions when dispersed with air in a sufficient concentration and with the presence of an ignition source. All equipment shall be grounded. Routine housekeeping will also contribute in preventing risks of dust explosions.

Storage: Safety aspects do not require any special precautions in terms of storage.

8. Exposure controls/personal protection

Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday. Appropriate personal protective equipment (PPE) shall be worn in accordance with Regulation (EU) 2016/425.

9. Physical and chemical properties

Appearance: pellets, transparent
Odor: slight

Melting point/ range: 100 – 140 °C
Density: 0,9 - 1,0 g/cm3

Ignition temperature: > 320 °C
Water solubility: insoluble in water

10. Stability and reactivity

The product is a stable thermoplastic, with no chemical reactivity.The intended crosslinking reaction occurs in combination with the catalyst masterbatch and moisture: at ambient conditions, in steam or hot water bath.Avoid contact with water and moisture.

11. Toxicological information

The product is not classified as hazardous to human health.

12. Ecological information

The product is not considered hazardous for the environment. Not readily biodegradable. Does not accumulate in organisms. Avoid release to the environment.

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13. Disposal considerations

Reuse or recycle if not contaminated. The product may be safely used as fuel. Proper combustion does not require any special flue gas control. Check with local regulations.Discharge into the environment must be avoided.

14. Transport information

The product is not regulated by ADR/RID, IMDG or IATA.

15. Regulatory information

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

Generic information on the identity of the polymers contained in the substance or mixture: 3901 Polymers of ethylene, in primary forms
Concentration of synthetic polymer microparticles in the substance or mixture:90-100%

16. Other information

Product does not require Safety Data Sheet in accordance with Article 31 of Regulation (EC) No 1907/2006, and its amendments.

Full text of H-Statements referred to under sections 2 and 3.
H225: Highly flammable liquid and vapor.
H301: Toxic if swallowed.
H311: Toxic in contact with skin.
H331: Toxic if inhaled.
H370: Causes damage to organs.

Issuer: Borealis, Group Product Stewardship

Disclaimer

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