Material Safety Data Sheet

TSEC-633 Physically Cross Linked Polyethlene

1. Composition / Information on chemical ingredients

1.1 Product type
Polyethylene / polypropylene foams (PE/PP)

1.2 SVHC
According to our current knowledge (validity date), our semi-finished foam polyolefin foam products do not contain any ingredients which are harmful to human health / environment (i.e. carcinogenic, germ cell mutagenic, reproductive toxic, (very) persistent, (very) bioaccumulative, toxic, endocrine, or equivalent level of concern according to Art. 57) in a concentration of more than 0.1 %.

1.3 Additional information
The foaming agent, azodicarbonamide (ADCA), has been categorised as SVHC in December 2012. The substance is a usual chemical foaming agent applied in foam production, because it decomposes thermally to more than 99.9 % to generate gas (mainly nitrogen). Our production process complies to the generally recognised code of good practice whereby the temperature in our foaming ovens is higher than the decomposition temperature of ADCA. Therefore we expect that our foams contain less than 0.1 w% of ADCA rest contents. However, any ADCA rests contents (traces) are embedded in the polymer matrix and will not be released under usual circumstances.

Since currently no standard analytical method for determination of ADCA rest contents in crosslinked polyolefin foams is available, the statements in this chapter are valid unless an appropriate analytical method is defined by an authorised institution (e.g. ISO, CEN, etc).

2. Handling and storage

2.1 Handling
Respect common personal protection measures and use applicable tools especially for internal transportation in order to minimize the risk of bodily harm.
If combustible solvent vapour or dust of any kind is present in the ambient air, use grounding or ionising installations - risk of explosion by electric spark. At foul weather, bad storage condition and fast separation (e.g. crawling, destacking) electrostatic charging and spontaneous discharging may be possible.

2.2 Storage conditions
Store at a roofed place. Avoid direct solar irradiation. Long-term exposure to UV radiation may change physical properties of the polyolefin foam.

2.3 Security-relevant physical properties
Physical appearance at 20 °C: Solid
Softening range: 70 - 130 °C
Ignition temperature: > 300 °C

2.4 Fire prevention notes
Our polyolefin foams consist mainly of polyethylene (PE) or polypropylene (PP) and are therefore combustible. Apply common measures of fire prevention. Keep away from heat/sparks/open flames/hot surfaces. No smoking.

2.5 Chemical substances to avoid
Polyolefin foams may react slowly with organic solvents and strong oxidising agents which might lead to changes of physical properties.

2.6 Hazard decomposition compounds
No hazard decomposition products are known.

3. Personal protection

3.1 General notes
Our polyolefin foams should not lead to damage caused to health when handled as recommended. At disturbance of health of any kind please contact a physician.

3.2 Personal protection equipment (PPE)
Choose work centre specific protection (work gloves, dust mask, protective goggles, etc.) in order to minimize the risk
of bodily harm and of disturbance of health.

3.3 Work hygiene
Respect common work hygiene measures.

4. Fire-fighting measures

4.1 Suitable estinguishing media
All known extinguishing media can be used.

4.2 Unsuitable extinguishing media
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4.3 Special Exposure Hazards Arising from the Article Itself, its Combustion Products, or Resulting Gases
During combustion particular danger arises of burning drops. Harmful gases may be generated like carbon monoxide, carbon dioxide, nitrogen monoxide, nitrogen dioxide.

4.4 Special Protective Equipment of Fire-Fighters
Do not approach the hazard area without positive pressure self-contained breathing apparatus.
Avoid skin contact with molten plastic by wearing protective clothing and by keeping a safety distance.

5. Disposal notes

5.1 Recommendation
The polyolefin foams can feed thermal recycling.

5.2 Possible Waste Codes According to European Waste Catalogue (EWC)
Please your disposal company for agreement on the correct waste code for you product.
07 02 03 Wastes from manufacture, formulation, supply and use of plastics: waste plastic
12 01 05 Wastes from shaping and physical and mechanical surface treatment of plastics: plastics shavings and turnings
15 01 02 Waste packaging: plastic packaging
16 01 19 Wastes not otherwise specified in the list: plastic
17 02 03 Construction and demolition wastes: plastic
17 02 04 Construction and demolition wastes: plastic containing or contaminated with dangerous substances
20 01 39 Municipal wastes: plastics

5.3 Packaging
Packaging can feed material recycling.

6. Transport information

6.1 Land, ADR/RID
No dangerous good

6.2 Sea, IMDG
No dangerous good.

6.3 Air, ICAO-TI / IATA-DGR
No dangerous good.

7. Labelling obligation

GHS, CLP Regulation (EC) No. 1272/2008
The article needs no particular label.

8. Disclaimer

All Information concerning technical/physical/chemical data and properties of our semi-finished foams are in accordance to the current state of the art and drawn on measurements, publications and our practical experience. All information in this document is correct in good faith. We have no control over the application of our foams and no legal responsibility for inappropriate usage is accepted. Control and approval of the final product in due consideration of the actual application as well as of conformity with European and national regulations are the responsibility of the foam applicant. Liability above the legal obligations is not accepted.

The present confirmation is valid until the amendment of security-relevant information, maximum 2 years starting from the validity date.

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