Material Safety Data Sheet

Thermoset Polyurethane Elastomer (cured)

1.IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT NAME: NORSelast® (thermoset polyurethane elastomer (cured)
USE: Polyurethane materials can be used in various applications
PRODUCER: Strukturplast AS, Postboks 247, 6821 Sandane, Norway
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2.HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORING TO EC DIRECTIVE 2006/121/EC OR 1999/45/EC
WARNING STATEMENT: Non-hazardous substance with recommended use. Fully cured polyurethanes present no health hazard; they are chemically inert and insoluble in water and most organic solvents. If the polyurethane elastomer is changed chemically by burning or heating the material to a decomposition temperature, only then will vapours from the solid elastomer be hazardous.

3.COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	CONTENT	CAS NUMBER
Thermoset polyurethane (cured)	100%	Mixture

4.FIRST AID MEASURES

SWALLOWED: If swallowed, do no induce vomiting. Rinse mouth thoroughly. No adverse effects anticipated by this route of exposure, incidental to proper industrial handling.
EYE: If mechanically grinding the polyurethane elastomer produces dust that enters the eyes, flush with plenty of water for at least 15 minutes, ensuring eye lids are held open. If irritation develops or persists, immediately transport to hospital or doctor.
SKIN: If dust is falls onto the skin, remove any contaminated clothing and wash skin thoroughly with copious quantities of water and soap. If irritation persists transport to hospital or doctor.
INHALED: No vapours produced with usual industrial handling as the polyurethane is inert. If the polyurethane is chemically changed by burning or heating then vapours will be produced. In this case, open all doors, windows and/or vents. Move victim to fresh air. Apply resuscitation if victim is not breathing. If trained personnel available administer oxygen if breathing is difficult.

FIRST AID FACILITIES:
Eye wash fountain, safety shower and normal washroom facilities.

5.FIRE-FIGHTING MEASURES

FIRE/EXPLOSION HAZARD:
If safe to do so, move undamaged material from fire area.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposes on heating emitting soot, smoke, gaseous hydrocarbons, oxides of carbon and nitrogen, hydrogen cyanide and hydrogen chloride.

FIRE FIGHTING PROCEDURES: Fire fighters to wear Self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended.

EXTINGUISHING MEDIA: Use extinguishing media suitable for surrounding fire situation e.g. water spray, carbon dioxide, dry chemical powder or appropriate foam.

FLAMMABILITY: Polyurethane solid is not flammable under normal conditions but toxic vapours can be emitted under fire conditions by chemically burning or heating material to decomposition temperatures.

6.ACCIDENTAL RELEASE MEASURES

If mechanically grinding the polyurethane solid, dust or particulate matter can be swept up and disposed of by wrapping in an appropriate container and then discarding to landfill in accordance with local, State or Federal regulations. Spilled dust may present a slipping hazard.

7.HANDLING AND STORAGE

Polyurethane solid with proper industrial handling in ambient conditions requires no extra measure, except we recommend keeping away from sources that would cause the polyurethane solid to burn. Store away from oxidizing agents, acids and alkalis.

8.EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROL: Polyurethane solid in its usual state will not produce dust particles, unless it is mechanically cut with or ground. If mechanically grinding the polyurethane solid, usual measure for dust control should be employed with the person wearing personal protective equipment and ventilation provided if required.
PERSONAL PROTECTION:
CLOTHING: Overalls or apron only if grinding the polyurethane solid.
GLOVES: Not required unless generating a dust from the product.
EYES: Chemical goggles or face shield if mechanically grinding the polyurethane solid.

RESPIRATOR PROTECTION REQUIRED ONLY IF POLYURETHANE SOLID IS BURNT.

RESPIRATORY PROTECTION: Avoid breathing of dusts and vapours when the product is heated.

9.PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Solid of varying colour, depending on product
BOILING POINT/MELTING POINT: Product is solid, decomposition temperature > 150°C
VAPOUR PRESSURE: Not applicable
SPECIFIC GRAVITY: Varying, depending on product
FLASH POINT: Not applicable
FLAMMABILITY LIMITS: Not applicable
SOLUBILITY IN WATER: Insoluble

10.STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of use.
HAZARDOUS DECOMPOSITION PRODUCTS: Emits choking and toxic fumes including hydrocarbons, oxides and nitrogen, hydrogen cyanide and hydrogen chloride when heated to decomposition.
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITIES: Strong acids, alkalis, combustibles and oxidizing agents.
CONDITIONS TO AVOID: Heat, flames, ignition sources so not to produce toxic vapours from burning.

11.TOXICOLOGICAL INFORMATION

No adverse health effects are expected, if the product is handled in accordance with this Material Safety Data Sheet. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:
ACUTE HEALTH EFFECTS:
SWALLOWED: Single dose oral toxicity is believed to be very low. No hazards anticipated from swallowing small amounts incidental to normal handling operations. No hazards anticipated from swallowing small amounts incidental to normal use.
EYE: Solid or dust may cause irritation or corneal injury due to mechanical action.
SKIN: Essentially non-irritating to skin. Mechanical injury only.
INHALED: Dust may cause irritation to upper respiratory tract. At room temperature, exposure to vapours is unlikely due to physical properties.
CHRONIC: Product is not expected to have adverse impact on human health.
TOXIOCOLOGICAL DATA: There is no other toxicological information available for this product.

12.ECOLOGICAL INFORMATION

ECOTOXICITY: There is no information available for this product.
MOBILITY: Insoluble in water.
PERSISTENCE/ DEGRADABILITY: There is no information available for this product.
CHEMICAL FATE INFORMATION: There is no ecological information available for this product.

13.DISPOSAL CONSIDERATIONS

If dust or particles are produced from a grinding action they can be wrapped and placed in landfill. The polyurethane solid as it is inert can be placed in the usual approved waste disposal in accordance with national regulations.

14.TRANSPORT INFORMATION

No UN number allocated for transport on road, by air or by sea. Not classified as dangerous goods.

15.REGULATORY INFORMATION

NOT CLASSIFIED AS HAZARDOUS ACCORING TO EC DIRECTIVE 2006/121/EC OR 1999/45/EC.

16.OTHER INFORMATION

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Reasons for Update: First version

DISCLAIMER

This MSDS summarizes our best knowledge of the health and safety hazard information available on the product and the measures to be used to handle and use the product safely. Each user should read this MSDS and consider the information in connection with the way the product is intended to be handled or used.