

SAFETY DATA SHEET

LANXESS

Energizing Chemistry

DURETHAN BKV 130 000000

00255219

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

Product name : DURETHAN BKV 130 000000
Use of the substance/preparation : Production of moulded plastic articles
Supplier/Manufacturer : LANXESS Deutschland GmbH, Industrial & Environmental Affairs
51369 Leverkusen, Germany, Telephone: +49 214 30 65109
E-mail: infosds@lanxess.com
Emergency telephone number : +49 214 30 99300 (Sicherheitszentrale CHEMPARK Leverkusen)

2. HAZARDS IDENTIFICATION

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.
See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product definition (REACH) : Preparation
copolyamide based on ϵ -caprolactam , glass fibre reinforced ,
elastomer-modified

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting in this section, in accordance with EU or national regulations.

4. FIRST AID MEASURES

First-aid measures

Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Skin contact : CONTACT WITH THE HOT MELT: Cooling immediately with plenty of water. Do not remove product crusts which may have formed neither forcibly nor by applying any solvents to the skin involved. In order to obtain medical care for possible burns and for a smooth cleansing of the skin, seek medical advice immediately.

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable** : In case of fire, use water spray (fog), foam, dry chemical or CO₂.
- Not suitable** : None known.
- Special exposure hazards** : No specific fire or explosion hazard.
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Granular solid. Hazard of slipping on spilt product. Melt: where there is a risk of exothermal decomposition as a result of overheating (rise in temperature, formation of fumes or smoke) cool the melt in a water bath
- Environmental precautions** : No special measures required.
- Large spill** : Take up mechanically.
- Small spill** : Take up mechanically.

7. HANDLING AND STORAGE

- Handling** : Provided good ventilation and/or local exhaust systems are used, the Occupational Exposure Limit(s) stated in Chapter 8 should not be exceeded. Dust must be removed by effective extraction. During regranulation avoid formation of dust.

Avoid inhaling vapours. Avoid inhaling dust. Grease skin. 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. When using do not eat, drink or smoke.
- Storage** : Store in a dry place.
- Packaging materials**
- Recommended** : Use original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The regulations for the substances listed below must be observed when processing this product, particularly if processing takes place at elevated temperatures. In our experience the provision of effective fresh-air and exhaust ventilation equipment at the points where vapors may be generated will ensure compliance with the tolerance limits quoted below.

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
Date of issue	: 2008-09-01

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
n-butyl acrylate	EU OEL (Europe, 5/2006). Notes: Indicative short term: 53 mg/m ³ 15 minute(s). short term: 10 ppm 15 minute(s). 8 hours: 11 mg/m ³ 8 hour(s). 8 hours: 2 ppm 8 hour(s).
ε-caprolactam	EU OEL (Europe, 5/2006). Notes: Indicative short term: 40 mg/m ³ 15 minute(s). Form: Dust and vapor 8 hours: 10 mg/m ³ 8 hour(s). Form: Dust and vapor

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Risk management measures

Occupational exposure controls

Technical measures : Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal protection measures

Respiratory protection : In case of dust formation use respiratory equipment with filter type particle filter P1 according to DIN EN 143.

Hand protection : Protective gloves of leather, contaminated or damaged gloves should be replaced.

Eye protection : Protective goggles with side shield or tightly fitting protective goggles

Skin protection : Skin covering working clothes; wear dust-proof overalls if large quantities of dust are generated.

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.

Environmental exposure controls

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

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

Physical state	: Solid. [Granular solid.]
Colour	: Colourless.
Odour	: Odourless.

Important health, safety and environmental information

Melting point	: 213°C (415.4°F)
Flash point	: Closed cup: >400°C (>752°F)
Density	: 1.36 kg/L (20 °C)
Bulk density	: 700 kg/m ³
Solubility	: Insoluble in the following materials: cold water
Ignition temperature:	: >400°C

10. STABILITY AND REACTIVITY

Stability	: The product is stable.
Decomposition temperature	: >350°C
Hazardous decomposition products	: Caused by smouldering and incomplete combustion toxic fumes mainly consisting of CO and CO ₂ may be developed. Degradation products of the polymers and their additives may also be formed.

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

Skin contact	: No known significant effects or critical hazards. In individual cases intensive contact of the unprotected skin with rough surfaces of glass-fibre-reinforced plastics may lead to irritation.
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Under the recommended processing conditions small amounts of emitted substance (e.g. residual monomers, residual solvents, decomposition products) may be discharged. According to our experience and information the product has no harmful effects on health if properly handled.

12. ECOLOGICAL INFORMATION

The product is practically insoluble in water. In view of its consistency and insolubility in water, no ecological problems are to be expected if the product is properly handled. This product is not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

- Methods of disposal** : The product is suitable for mechanical recycling. After appropriate treatment it can be remelted and reprocessed into new moulded articles. Mechanical recycling is only possible if the material has been selectively retrieved and carefully segregated according to type. May only be transported to suitable incinerator with reduced non-air emissions observing local official regulations. May be disposed of together with household refuse if local official regulations are observed.
- Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

14. TRANSPORT INFORMATION

Regulation	UN number	Proper shipping name	Class	PG	Label	Additional information
ADR/RID	-	-	-	-	-	Not regulated.
GGVSE	-	-	-	-	-	Not regulated.
ADNR	-	-	-	-	-	Not regulated.
IMDG	-	-	-	-	-	Not regulated.
IATA	-	-	-	-	-	Not regulated.

PG: Packing group

Not dangerous cargo.
Keep dry.

15. REGULATORY INFORMATION

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Industrial applications.

Risk phrases : This product is not classified according to EU legislation.

16. OTHER INFORMATION

History

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Notice to reader

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The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance.