

# SAFETY DATA SHEET

**LANXESS**  
Energizing Chemistry

Keltan ® 4450 DE GLN

57591139

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name : Keltan ® 4450 DE GLN

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Suitable uses : crude product for the production of technical rubber articles

### 1.3 Details of the supplier of the safety data sheet

Supplier : LANXESS Elastomers BV  
Urmonderbaan 24, 6167 RD Geleen  
P.O. box 185, 6160 AD Geleen  
The Netherlands  
E-mail: infosds@lanxess.com

1.4 Emergency telephone number : 0870 190 6777. National Chemical Emergency Centre

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification : Not classified.

Classification according to Directive 1999/45/EC [DPD]

Classification : Not classified.

### 2.2 Label elements

Hazard pictograms : Not applicable.

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Additional warning phrases : Not applicable.

#### Precautionary statements

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

### 2.3 Other hazards

Other hazards which do not result in classification : None known.

## SECTION 3: Composition/information on ingredients

Product definition (REACH) : Polymer  
Ethylene-propylene-diene-rubber (EPDM)

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.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Skin contact** : Get medical attention if irritation develops.  
**Eye contact** : Get medical attention if irritation occurs.

### 4.2 Most important symptoms and effects, both acute and delayed

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

### 4.3 Indication of any immediate medical attention and special treatment needed

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

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.  
**Unsuitable extinguishing media** : None known.

### 5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : No specific fire or explosion hazard.  
**Hazardous combustion products** : Decomposition products may include the following materials: carbon oxides

### 5.3 Advice for firefighters

- Special precautions for fire-fighters** : 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.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures** : No special measures required.

**6.2 Environmental precautions** : No special measures required.

### 6.3 Methods and material for containment and cleaning up

- Small spill** : Take up mechanically.  
**Large spill** : Take up mechanically.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling** : Provided good ventilation and/or local exhaust systems are used, the Occupational Exposure Limit(s) stated in Chapter 8 should not be exceeded.
- 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.
- 7.2 Conditions for safe storage, including any incompatibilities** : Do not store above the following temperature: 30°C (86°F). Store in a dry place.
- 7.3 Specific end use(s)**
- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.
- Remarks** : Keep away from direct sunlight or strong incandescent light. Protect from moisture.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Exposure limit values** : Not available.

**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 monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### 8.2 Exposure controls

#### 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.

<b>Hand protection</b>	: Protective gloves of leather, contaminated or damaged gloves should be replaced.
<b>Eye protection</b>	: Protective goggles with side shield or tightly fitting protective goggles
<b>Skin protection</b>	: Skin covering working clothes; wear dust-proof overalls if large quantities of dust are generated.
<b>Hygiene measures</b>	: 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**

<b>Technical measures</b>	: 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.
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## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

#### **General information**

##### **Appearance**

<b>Physical state</b>	: Solid. [rubber bales]
<b>Colour</b>	: White.
<b>Odour</b>	: Characteristic. [Slight]

#### **Important health, safety and environmental information**

<b>Solubility</b>	: Insoluble in the following materials: cold water
<b>Combustibility at 20 °C</b>	: BZ 1 = no ignition (VDI 2263).
<b>Auto-ignition temperature</b>	: >370°C (>698°F)
<b>Decomposition temperature</b>	: Not available.

### **9.2 Other information**

No additional information.

## **SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: No specific data.
<b>10.3 Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: In the case of dusty organic products the possibility of a dust explosion should always be considered. No hazardous reactions when used as directed.
<b>10.5 Incompatible materials</b>	: No specific data.
<b>10.6 Hazardous decomposition products</b>	: Caused by smouldering and incomplete combustion toxic fumes mainly consisting of CO and CO <sub>2</sub> may be developed. Degradation products of the polymers and their additives may also be formed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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.

#### Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Eye contact** : No known significant effects or critical hazards.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable.

**vPvB** : Not applicable.

### 12.6 Other adverse effects

**Other adverse effects** : Not available.

**AOX** : Not available.

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.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : Where large quantities are concerned, consult the supplier. Examine possibilities for re-utilisation. For disposal within the EC, the appropriate code according to the European Waste List (EWL) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste List (EWL).

**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.

#### Packaging

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	-	-	-	-
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)/ Marks	- -	- -	- -	- -
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No	No
14.6 Special precautions for user/Additional information	Not regulated.	Not regulated.	Not regulated.	Not regulated.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

### Hazard notes:

Not dangerous cargo.  
Keep dry.  
Keep away from cargo susceptible to odour.  
Keep separated from foodstuffs.

## SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

### EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorisation

##### Annex XIV

None of the components are listed.

##### Substances of very high concern

None of the components are listed.

##### Other EU regulations

##### Seveso III Directive

This product is not controlled under the Seveso III Directive.

**15.2 Chemical Safety Assessment** : Not applicable.

## SECTION 16: Other information

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number  
vPvB = Very Persistent and Very Bioaccumulative

### History

**Date of issue** : 2015-06-23  
**Date of previous issue** : No previous validation  
**Version** : 1

☑ Indicates information that has changed from previously issued version.

### Notice to reader

*The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet and its Annex [if required according to Regulation (EC) 1907/2006 (REACH)] is to describe the products in terms of their safety requirements. The given details do not imply any guarantee concerning the composition, properties or performance.*