Keltan® 4703(Z)

Identification of the substance/preparation and of the company/undertaking

Product Name

Keltan® 4703(Z)

Chemical product name

Ethylene-propylene-(diene) elastomer, EP(D)M

Supplier

SM Elastomers Europe B.V. Poststraat 1, 6135 KR Sittard P.O. Box 43, 6130 AA Sittard

The Netherlands

Emergency telephone

number

: Metherlands: +31 (0)46 476 55 55

Recommended use

Elastomeric component in rubber compounds, plastics modification and oil modification, for

applications in automotive, construction, wire and cable and general rubber goods.

Composition/information on ingredients

Substance/preparation

: Preparation

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 regulations or National regulations.

Hazards identification

Human health hazards

Heated material can cause thermal burns.

Environmental hazards

Based on the available data of this product no hazardous properties are known.

Physical/chemical hazards

Remarks

The material burns slowly with high smoke density and flaming drips.

First aid measures

Remarks

During heating and processing of the material small amounts of free monomer may evaporate resulting in airborne concentration that may cause irritating effects of the respiratory tract and nausea.

Effects and symptoms

Inhalation

: Not applicable.

Ingestion

There is no known effect from acute over-exposure to this product.

Skin contact

Heated material can cause thermal burns resulting in pain, redness, blistering.

Eye Contact

May cause eye irritation. (redness).

First-Aid measures

Inhalation

: Not applicable.

Ingestion

Iswallowed, rinse mouth with water (only if the person is conscious). Obtain medical attention if

In case of fire, may produce toxic and/or corrosive decomposition products such as carbon monoxide.

symptoms occur.

Skin contact

Rinse with plenty of running water. Obtain medical attention.

Eye Contact

Kinse with plenty of running water. Obtain medical attention if symptoms occur.

First aid facilities

No special recommendations

5. Fire-fighting measures

Extinguishing Media

Small fire

Suitable

Se dry chemical powder or CO₂.

Large fire

Suitable

Se dry chemical powder, alcohol resistant foam

Unusual fire/explosion Hazards

No specific hazard.

Hazardous thermal decomposition products

carbon dioxide, (dense) black smoke, aldehydes, organic acids.

Special fire-fighting procedures

Kvoid contact with heated material.

Protection of fire-fighters

: Wear suitable protective clothing. Self-contained breathing apparatus.

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6. Accidental release measures

Personal Precautions

: Use suitable protective equipment (Section 8).

Environmental precautions

: No special measures required.

Clean-up Methods

Small spill and leak

: Vacuum or sweep up material and place in a designated labelled waste container. Clean up affected

area with a large amount of water.

Large spill and leak

: Vacuum or sweep up material and place in a designated labelled waste container. Recycle, if possible. Prevent formation of dust clouds. Clean up affected area with a large amount of water.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Handling

: Use with adequate ventilation.

Storage

Store in a fireproof location. Keep away from incompatible materials and avoid specific conditions

(See section 10)

Storage temperature

Store between 15 and 25 °C.

Remarks

Relative humidity should be kept below 65%. Do not stack more than 2 pallets high in connection with risk of falling over. Do not stack more than 2 pallets high in connection with risk of falling over. For further information about handling and storage see 'Keltan® EPDM packaging storage

conditions'

Note: See section 10 for stability and reactivity

8. Exposure controls/personal protection

Engineering measures

: Use only with adequate ventilation.

Hygiene measures

When using do not eat, drink or smoke. Wash hands after handling compounds and before eating,

smoking, using lavatory and at the end of day.

Personal protective equipment - Production scale

Respiratory system

: Not required.: Working clothes.

Skin and body Eves

Safety glasses with side shields.

Hands

When handling hot material, wear heat-resistant protective gloves that are able to withstand the

temperature of moiten product.

Remarks

: If general ventilation is inadequate, local exhaust ventilation should be used to dispose of vapours from hot processing equipment, particularly during purging. If user operations generate dust, fume or

mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Advice on personal protection is applicable for high exposure levels.

9. Physical and chemical properties

Physical state : Solid. (Bales)
Colour : Beige.
Odour : Odourless.
Flash Point : >300 °C
Lower explosion limit : Not available.
Upper explosion limit : Not available.
Auto-ignition temperature : \$\mathbb{F}370 °C\$

Density (g/cm³) : 0.86 g/cm³
Solubility : Insoluble in cold water.

10. Stability and reactivity

Stability

Stable under recommended storage and handling conditions (see section 7).

Conditions to Avoid

: Keep away from heat, sparks and flame. Exposure to (sun)light. Relative humidity should be kept

below 65%

Materials to avoid

: Oxidising agent.

Hazardous decomposition

products

: At processing temperatures some degree of thermal degradation may occur. Highly dependent on temperature and environmental conditions, a variety of decomposition products may be formed, such

as low molecular weight hydrocarbons and hydrocarbon oxidation products (acids, ketons,

aldehydes).

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11. Toxicological information

Acute toxicity

Ingredient name	Test	Species	Route	Result
hylene-propylene-(diene) elastomer, EP(D)M	LD ₅₀	Rat	Oral	>5000 mg/kg

Chronic toxicity

: Not available.

Remarks

: Acute oral toxicity (LD50) Estimated.

Note: See section 4 for effects and symptoms

12. Ecological information

Ecotoxicity data

: Not available.

Persistence/degradability

Ingredient name	BOD₃	COD	ThOD
Thylene-propylene-(diene) elastomer, EP((D)M		
Ingredient name	Aquatic half-life	Photolysis	Biodegradability
Thylene-propylene-(diene) elastomer, EP(D)M		Not readily
Ingredient name	LogP _w	Bio-concentration factor	Bioaccumulative potential
Ethylene-propylene-(diene) elastomer, EP(D)M		

Mobility

: For data on physical state and solubility see section 9.

Hazard class for water

(Germany)

: F(Low hazard to waters) (Self-classification.)

13. Disposal considerations

of residues; contaminated

Methods of disposal (waste : Waste must be disposed of in accordance with national and local environmental regulations.

packaging)

14. Transport information

General information

Not established

15. Regulatory information

EU Regulations

Risk Phrases

: This product does not have to be classified according to the EC regulations.

16. Other information

Information

: www.dsm.com/en_US/html/keitan/home_keitan.htm

Internal code

: WW13774

History

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Notice to reader

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The information contained in the Safety Data Sheet is based on our data available on the date of publication. The information is intended to aid the user in controlling the handling risks; it is not to be construed as a warranty or specification of the product quality. The information may not be or may not altogether be applicable to combinations of the product with other substances or to particular applications.

The user is responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data are suitable and sufficient for the product's intended purpose. In case of any unclarity we advise consulting the supplier or an expert.

None of the materials referenced herein should be used and/or applied in any product, device or material used or for use as human body implant or otherwise within the human body.

Training advice

: Before handling this substance/preparation, the personnel involved should be instructed by means of

this safety data sheet.

Sources of key data

: Literature data and/or investigation reports are available at the manufacturer.

Alterations compared to the : Alterations compared to the previous version are marked with a little (blue) triangle.

previous version