Keltan® 5531A

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

Product Name

Chemical product name

: Ethylene-propylene-(diene) elastomer, EP(D)M oil extended

Supplier

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

The Netherlands

Emergency telephone

number

: The Netherlands: +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 2.

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 3

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 4

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

: Not applicable.

Inhalation

Ingestion

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

symptoms occur.

Skin contact

: Rinse with plenty of running water. Obtain medical attention.

Eve Contact

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

First aid facilities

No special recommendations

Fire-fighting measures

Extinguishing Media

Small fire

Suitable

: Use dry chemical or CO2.

Large fire

Suitable

Use DRY chemical powder. alcohol resistant foam

Unusual fire/explosion

Hazards

: No specific hazard.

Hazardous thermal decomposition products in case of fire, may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, (dense) black smoke, aldehydes, Organic acids.

Date of issue: 13 April 2005

Version: 2.02

STANDARD MARKETED BY Ü 0 RIBUTI

Page: 1/4

Safety data sheet

Conforms to 91/155/EEC -2001/58/EC

Keltan® 5531A

Special fire-fighting

procedures

Avoid contact with heated material.

: Wear suitable protective clothing. Self-contained breathing apparatus. Protection of fire-fighters

Accidental release measures 6.

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.

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. 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.

Skin and body Eyes

: Working clothes.

: Face shield.

Hands

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

temperature of molten 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. Select proper personal protection based on a risk assesment of the actual exposure situation.

Physical and chemical properties

Physical state

: Solid. (Bales)

Colour

: Beige. Yellowish-brown.

Odour

Odourless.

Flash Point

Lower explosion limit

>260 °C

Upper explosion limit

: Not available. : Not available.

Auto-ignition temperature

: > 370 °C

Density (g/cm3)

: 0.855 to 0.865 g/cm3

Solubility

: Insoluble in cold water.

Date of issue: 13 April 2005 Version: 2.02 Page: 2/4

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).

11. Toxicological information

Acute toxicity

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

Chronic toxicity

: Not available.

: Acute oral toxicity (LD50) Estimated.

Note: See section 4 for effects and symptoms

12. Ecological information

Ecotoxicity data

· Not available

Ingredient name	Aquatic half-life	Photolysis	Biodegradability
Ethylene-propylene-(diene) elastomer, EP(D) M oil extended	-	-	Not readily

Mobility

: For data on physical state and solubility see section 9

13. Disposal considerations

Methods of disposal (waste of residues; contaminated packaging)

: Waste must be disposed of in accordance with national and local environmental regulations.

14. Transport information

General information

Not established

15. Regulatory information

EU Regulations

Risk Phrases

: This product is not classified according to the EU regulations.

16. Other information

Information

: www.dsm.com/en_US/html/keltan/home_keltan.htm

Internal code

: WW15227

History

Date of printing Date of issue

: 13 April 2005. 13 April 2005

Date of previous issue

: 30 June 2004.

Version

: 2.02

Notice to reader

Date of issue: 13 April 2005

Version: 2.02

Page: 3/4

Safety data sheet

Conforms to 91/155/EEC - 2001/58/EC

Keltan® 5531A



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

previous version

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

Date of issue: 13 April 2005 Version: 2.02 Page: 4/4