

According to 91/155/EEC-2001/58/EC
Safety Data Sheet
Keltan®708x15



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical name : Ethylene-propylene-(diene) elastomer, EP(D)M oil extended.
Supplier : DSM Elastomers
 Contact address:
 P.O. Box 43
 6130 AA Sittard
 The Netherlands
Emergency telephone : +31 46 476 55 55
Product use : Rubber and rubber modified articles.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ethylene-propylene-(diene) elastomer, EP(D)M extended with parafinic oil.

3. HAZARDS IDENTIFICATION

Human health hazards : The material itself is slightly hazardous to the human body. During processing of the material small amounts of free monomer may evaporate resulting in airborne concentration which may cause irritating effects.
Environmental hazards : There is no indication that this material is toxic to the environment.
Physical/chemical hazards : The material burns slowly with high smoke density and flaming drips.

4. FIRST AID MEASURES

Emergency overview : The material itself is slightly hazardous to the human body. During processing of the material small amounts of free monomer may evaporate resulting in airborne concentration that may cause irritating effects.

Inhalation

Effects and symptoms : When the material is heated and processed, small amounts of free monomers may evaporate resulting in irritation of the respiratory tract and nausea.
First-Aid measures : Remove victim to fresh air, aid breathing if necessary. Obtain medical attention if irritation persists.

Ingestion

Effects and symptoms : No effects expected.

Skin contact

Effects and symptoms : Prolonged exposure is not likely to result in material being absorbed through the skin in harmful amounts. Repeated, prolonged exposure may cause mild skin irritation and redness. Exposure to hot material may cause thermal burns.
First-Aid measures : Wash with water and soap. If thermal irritation occurs, flush affected area with cold water to dissipate heat, then cover with clean cotton sheeting or gauze and get prompt medical

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attention.

Eye contact	
Effects and symptoms	: Particulates may scratch eye surface or cause mild irritation.
First-Aid measures	: Flush with clean water for 15 minutes. Obtain medical attention if irritation persists.
Medical conditions aggravated by exposure	: Some individuals with specific sensitivities may exhibit eye, nose or throat irritation with prolonged exposure to processing fumes. Individuals with pre-existing skin disorders should avoid contact with this material.
Note to physician	: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing media	
Suitable	: Water, water/foam, carbon dioxide, ABC fire extinguisher powder.
Not suitable	: No restrictions.
Unusual fire and explosion hazards	: No hazards known.
Hazardous thermal decomposition and combustion products	: Carbon monoxide, carbon dioxide, products of incomplete combustion and various hydrocarbons.
Protection of firefighters	: Fire fighters should wear full protective clothing including self-contained breathing apparatus. Keep personnel removed and upwind of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	: Use protective gloves (see section 8).
Methods for cleaning up	: In case of large spills: Collect spilled material and reuse if possible. In case of small spills: collect spilled material in containers, and dispose appropriately.

7. HANDLING AND STORAGE

Handling	: When using do not eat, drink or smoke. Avoid inhalation of fumes/vapors from hot rubbers, compounds and vulcanizates. Wash hands after handling.
Storage	: Store in a clean, dry, dark area. Keep in original containers or use black covers to protect from (artificial or natural) light. Storage outdoor should be avoided. The preferred storage temperature is between 15-25 °C. Relative humidity should be kept below 65%.
Remarks	: For further information about handling and storage see 'Keltan® EPDM packaging storage conditions'.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures	:	A power ventilation system should be installed where processing at high temperatures e.g. vulcanisation, is carried out and where bales are being ground or machined. Local exhaust ventilation is recommended during all hot processing operations.
Personal protection		
General	:	Following precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.
Respiratory system	:	No protection required.
Hands	:	Protective gloves. Wear heat resistant gloves when working with hot material.
Eyes	:	Wear heat resistant face shield when working with hot material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Bales.
Color	:	Ranges from natural opaque to yellow/brownish.
Odor	:	Odorless to weak paraffinic.
Boiling point	:	Not established.
Melting point	:	Not established.
Decomposition temperature	:	> 300 °C.
Solubility in water	:	Insoluble.
Solubility in other substances	:	Soluble in general hydrocarbons such as alkanes cycloalkanes aromatic substances and mineral oils.
Relative density	:	860-900 kg/m ³ .
Vapor pressure	:	Not established.
Flash point	:	> 260 °C.
Lower explosion limit	:	Not established.
Upper explosion limit	:	Not established.
Auto ignition temperature	:	> 370 °C.

10. STABILITY AND REACTIVITY

Stability	:	Stable under normal storage conditions.
Conditions to avoid	:	Temperatures above 260 °C. Humidity over 65% and exposure to direct natural or artificial light.
Materials to avoid	:	Strong oxidizing agents.
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, ketones, aldehydes).
Hazardous polymerization	:	Will not occur (normal conditions).
Remarks	:	For further information about handling and storage see 'Keltan® EPDM packaging storage conditions'.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Oral	: Estimated LD ₅₀ rat: > 5000 mg/kg.
Inhalation	: Acute toxicity via the inhalatory route of exposure is expected to be low.
Skin	: Acute toxicity via the dermal route of exposure is not expected.
Eye irritation	: Slightly irritating.
Skin irritation	: Slightly irritation.
Sensitization	: Not sensitizing.

12. ECOLOGICAL INFORMATION

Mobility	: Not available.
Persistence/degradability	: Not biodegradable.
Bioaccumulative potential	: None.
Ecotoxicity	: There is no indication that this material is toxic to the environment.

13. DISPOSAL CONSIDERATIONS

Methods of disposal	: Reuse if possible. Material as supplied is not characterized as hazardous under RCRA (Resource and Conservation Recovery Act). Dispose of contaminated materials and other waste materials as directed by local, state and federal regulations. Improper disposal of excess wastes is a violation of federal law.
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14. TRANSPORT INFORMATION

USA	: Not regulated as hazardous by D.O.T. regulations.
Canada	: Not regulated as hazardous by Canadian Transportation of Dangerous Goods Regulations.
Europe	: Not regulated as hazardous by European Transportation of Dangerous Goods Regulations.

15. REGULATORY INFORMATION

EU Regulations
National regulations

Risk Phrases	: This product is not classified according to the EU regulations.
Inventory status	
EINECS inventory (Europe)	: Components are listed.

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16. OTHER INFORMATION

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.

Recommended application(s): Elastomeric component in rubber compounds, plastics modification and oil modification, for applications in automotive, construction, wire and cable and general rubber goods.

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HISTORY

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