

Keltan® 4331A

Section 1. Chemical product and company identification

Product name	: Keltan® 4331A	
Supplier	: DSM Elastomers Europe B.V. Mijnweg 1, 6167 AC Geleen P.O. Box 601, 6160 AP Geleen The Netherlands	: DSM Elastômeros Brasil Ltda. BR 386, Rodovia Tabai-Canos km 419 - Via de Contorno, no 292 III Pólo Petroquímico - Triunfo - RS Brasil
Chemical name	: Ethylene-propylene-(diene) elastomer, EP(D)M oil extended	
Material uses	: Elastomeric component in rubber compounds, plastics modification and oil modification, for applications in automotive, construction, wire and cable and general rubber goods.	
Code	: WW36836	
Emergency telephone number	: Phone : (31) 46 4765555 Fax : (31) 46 4766440 In case of emergency during transport, for North- and South- America: CHEMTREC, (800) 424 9300 Brasil: + 55 51 457 59 99	

Section 2. Composition, information on ingredients

Section 3. Hazards identification

Physical state	: Solid. [Bales]
Emergency overview	: NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.
HCS Classification	: Not regulated.
OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
<u>Potential acute health effects</u>	
Eyes	: May cause eye irritation. (redness).
Skin	: Heated material can cause thermal burns resulting in pain, redness, blistering.
Ingestion	: There is no known acute effect after over-exposure to this product.
Potential chronic health effects	: CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.
Medical conditions aggravated by over-exposure	: None known.
Remarks	: The material burns slowly with high smoke density and flaming drips. Additives contained in this product do not pose a risk to health unless they are liberated during processing (fumes from melting, dusts). Suitable Industrial Hygiene precautions should be implemented to prevent (respirable) dust and fume exposures. Exposure to (melting) fumes should be kept as low as possible, using suitable ventilation equipment. Dusts and fumes created from secondary processing may be irritating to respiratory tract and skin and should be considered as potentially hazardous. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. If heated and ventilation is inadequate, use respirator which will protect against organic vapor and

dust/mist.

See toxicological information (section 11)

Section 4. First aid measures

- Eye contact** : Rinse with plenty of running water. Get medical attention if symptoms occur.
- Skin contact** : Rinse with plenty of running water. Get medical attention.
- Ingestion** : If swallowed, rinse mouth with water (only if the person is conscious). Get medical attention if symptoms occur.

Section 5. Fire fighting measures

- Auto-ignition temperature** : >370°C (>698°F)
- Flash point** : Closed cup: >260°C (>500°F)
- 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.
- Extinguishing media**
- Suitable** : Use dry chemical powder. Alcohol-resistant foam.
- Special fire-fighting procedures** : Avoid contact with heated material.
- Protection of fire-fighters** : Wear suitable protective clothing. Self-contained breathing apparatus.

Section 6. Accidental release measures

- Personal precautions** : Use suitable protective equipment (section 8).
- Environmental precautions** : No special measures required.
- Methods for cleaning up** : Vacuum or sweep up material and place in a designated, labeled waste container. Recycle, if possible. Prevent formation of dust clouds. Clean up affected area with a large amount of water.
- Personal protection in case of a large spill** : Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be adequate. Consult a specialist before handling this product.

Section 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 the following temperatures: 15 and 25 °C.
- Remarks** : For further information about handling and storage see "Keltan® EPDM packaging storage conditions".

Section 8. Exposure controls/personal protection

- Engineering controls** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- Personal protection**
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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Hands : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Product name

Not available

Exposure limits

Consult local authorities for acceptable exposure limits.

Remarks : If general ventilation is inadequate, local exhaust ventilation should be used to dispose of vapors from hot processing equipment, particularly during purging. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Section 9. Physical and chemical properties

Physical state : Solid. [Bales]
Color : White.
Odor : Odorless.
Density : 0.86 to 0.88 g/cm³
Solubility : Insoluble in the following materials: cold water.

Section 10. Stability and reactivity

Stability and reactivity : The product is stable.
Conditions to avoid : Keep away from heat, sparks and flame. Exposure to (sun)light. Relative humidity should be kept below 65%.
Materials to avoid : Oxidizing agent.
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Toxicity data

Ingredient name	Result	Species	Dose	Exposure
Ethylene-propylene-(diene) elastomer, EP(D)M oil extended	LD50 Oral	Rat	>5000 mg/kg	-

Other toxic effects on humans : No specific information is available in our database regarding the other toxic effects of this material to humans.

Special remarks on other toxic effects on humans : Not available.

Specific effects

Carcinogenic effects : No known significant effects or critical hazards.

Mutagenic effects : No known significant effects or critical hazards.

Reproduction toxicity : No known significant effects or critical hazards.

Remarks : Acute oral toxicity (LD50) Estimated.

Section 12. Ecological information

Biodegradable/OECD : Not readily biodegradable.

Section 13. Disposal considerations

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

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
Mexico Classification	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

Section 15. Regulatory information

- U.S. Federal regulations** : **United States inventory (TSCA 8b):** -
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: No products were found.
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean Air Act (CAA) 112 accidental release prevention: No products were found.
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.
- State regulations** : **Connecticut Carcinogen Reporting:** None of the components are listed.
Connecticut Hazardous Material Survey: None of the components are listed.
Florida substances: None of the components are listed.
Illinois Chemical Safety Act: None of the components are listed.
Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.
Louisiana Reporting: None of the components are listed.
Louisiana Spill: None of the components are listed.
Massachusetts Spill: None of the components are listed.
Massachusetts Substances: None of the components are listed.
Michigan Critical Material: None of the components are listed.
Minnesota Hazardous Substances: None of the components are listed.
New Jersey Hazardous Substances: None of the components are listed.
New Jersey Spill: None of the components are listed.
New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.
New York Acutely Hazardous Substances: None of the components are listed.
New York Toxic Chemical Release Reporting: None of the components are listed.
Pennsylvania RTK Hazardous Substances: None of the components are listed.
Rhode Island Hazardous Substances: None of the components are listed.

Section 16. Other information

Label requirements : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Information : Contact:

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www.keltan.com.

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Notice to reader

The information contained in the Material 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.

Sources of key data : Literature data and/or investigation reports are available through the manufacturer.

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