## **DSM Elastomers Americas**

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Corporate Environmental Health and Safety



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# Material Safety Data Sheet

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Keltan® EPDM Grades: E801

1. **GENERAL INFORMATION** 

Telephone (225) 267-3400

Ethylene, propylene, ethylidene norbornene, terpolymer rubber (EPDM) Chemical Name:

25038-36-2 CAS Number:

Bicyclo (2,2,1-)hept-2-ene, 5-ethylidene-,polymer with ethene and 1-propene CAS Name (Rubber only):

Rubber articles and rubber modified articles Product Use:

NA

CHEMICAL COMPOSITION 2.

> Wt % (max) Hazard Classification Ingredient CAS# 25038-36-2 90 NH **EPDM**

9002-88-4 10 Inhalation Polyethylene

3. **PHYSICAL DATA** 

> Bales or pellets Physical State: Odor: none to slight Odor Threshold: NE White to amber Appearance:

Specific Gravity (range): Melting/Freezing Points: **Boiling Point:** NA NA Vapor Pressure: NA Volatiles (% by weight, @105°C): 1.0 max

Vapor Density: NA Insoluble Evaporation rate: Solubility in Water at 20°C:

NA Coefficient in Water/Oil Distribution: NE

4. FIRE AND EXPLOSION HAZARD DATA

> Upper/Lower Explosive Level: NA >300°C, COC Flash Point, Method: Upper/Lower Flammable Limits: NE Above 350°C (730°F) Auto ignition Temperature:

>200°C, 392°F Ignition Temperature: No, but the product will burn if Ignited. Combustible:

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, products from incomplete combustion, silicates,

and various hydrocarbons.

**Extinguishing Media:** All fire extinguishing media permitted - foam or water fog recommended.

Special Fire Fighting Procedure: During emergency conditions, exposure to thermal decomposition products may

cause a health hazard. Use of NIOSH approved self-contained breathing apparatus

is recommended.

NA NA Sensitivity to impact/Shock: Sensitivity to Static Discharge:

5. PROTECTIVE AND PREVENTIVE MEASURES

Personal Protective Equipment: Eye: Wear Safety glasses.

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Skin: Wear clothing appropriate to prevent skin contact. Use gloves resistant to chemicals and petroleum distillates. Where contact may occur with hot material, wear thermal resistant gloves, arm protection, and a face shield.

Respiratory: Not normally required at ambient temperatures. If processing in area where ventilation is inadequate or ignition has occurred, wear a NIOSH-approved organic vapor respirator with mechanical filtration.

Handling Procedures and

**Equipment:** 

Avoid skin and eye contact, practice good personal hygiene. Avoid inhalation of fumes/vapors from hot rubbers, compounds and vulcanizates.

Engineering Controls:

Local exhaust ventilation is recommended during all hot processing operations.

**Exposure Guidelines:** 

PEL (OSHA) TLV(ACGIH) Respirable Dust Polyethylene (see Note 1) 5 mg/m<sup>3</sup> 3 ma/m³

DSM COPOLYMER,

#### SPECIAL REGULATORY HAZARD CLASSIFICATIONS FOR HEALTH, SAFETY, AND FOOD 6.

OSHA:

The following ingredients in this product are regulated individually as hazardous materials under OSHA Hazard Communication Standard 29 CFR Part 1910.1200.

FDA:

These grades are approved for use in complying with 21 CFR 177.2600, "Rubber Articles for Repeated Use": NE

TSCA:

Components of these products are listed under TSCA Chemical Substance

inventory.

**TRANSPORTATION** 

**CLASSIFICATIONS:** 

SARA Title III:

United States DOT: Designation and labeling are not applicable, as products are not defined or designated as a hazardous material by U.S. Department of Transportation under Title 49 of CFR.

Canada: These products are not regulated under the Canadian Transportation of Dangerous Goods Regulations.

IATA: These products are not regulated under the International Air Transport

Association Dangerous Goods regulations.

Section 302/304. Extremely Hazardous Substances - None.

Section 311. Hazardous Substances - Not Applicable.

Section 313. This product is not subject to reporting requirements.

Components of these products are included in Canada's DSL.

CEPA: EC:

The European Commission does not consider these products hazardous. WHMIS:

These products are not considered Controlled Products under Canada's Workplace

Hazardous Material Information System.

#### TOXICOLOGY AND HEALTH DATA 7.

Medical Conditions Aggravated by Exposure:

Some individuals with specific sensitivities may exhibit eye, nose, throat or thermal irritation with prolonged exposure to processing fumes. Individuals with pre-existing skin disorders should avoid contact with this material.

Specific Hazard:

No acute or chronic hazards or effects are known.

Routes of Exposure:

Eye Contact: Not a probable route of exposure. Particulates may scratch eye surface or cause mild irritation.

Skin Contact: A single 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 in some Individuals. Exposure to hot material may cause thermal burns.

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ingestion: Not a probable route of exposure.

Inhalation: Not a probable route of exposure under conditions of normal use. Hot fumes or vapors that may form during processing or burning can cause irritation to the respiratory tract.

Toxicology Information:

Reproductive Effects: None reported

LD50 = NE

Tetragenicity: None reported

Mutagenicity: None reported

LC50 = NA

Carcinogenicity: None reported.

#### **EMERGENCY AND FIRST AID PROCEDURES** 8.

Eye Contact:

Remove as for any foreign object. Flush with clean water for 15 minutes. Obtain medical attention if irritation persists.

Skin Contact:

Wash with soap and water. If thermal irritation, flush affected area with cold water to dissipate heat, then cover with clean cotton sheeting or gauze and get prompt medical attention.

Inhalation:

if fumes/vapors are inhaled, move to fresh air, aid breathing if necessary. Obtain medical attention if irritation persists.

ingestion:

Products:

Unlikely to occur.

9. CHEMICAL REACTIVITY

Chemical Stability:

Conditions to Avoid:

Incompatibility with other Materials:

**Hazardous Decomposition** 

Hazardous Polymerization:

None known.

Carbon monoxide, carbon dioxide, various hydrocarbons, and partially oxidized

hydrocarbons. Will not occur.

SPILLS, DISPOSAL, STORAGE GUIDELINES 10.

Spill and Release Information: Disposal Information:

Repackage uncontaminated rubber. Reuse or dispose of as noted below.

RCRA. Dispose in accordance with local, state, and federal regulations and

Product is stable at ambient temperature and pressure.

applicable environmental regulations.

light.

OSHA:

Store below 35°C (95°F) in dry area and in the absence of direct, natural, or artificial

Reuse if possible. Material as supplied is not characterized as hazardous under

Heat (65.5°C, 150°F max) will cause thermal decomposition; ignition source.

**LABELS** 11.

Storage:

Not Required

WHMIS:

Not Required

#### 12. **NOTES TO USERS**

Note 1

Exposure limits for particulates not otherwise classified/regulated.

## ADDITIONAL INFORMATION, ABBREVIATIONS AND NOTICES TO USER

ACGIH: CEPA:

American Conference of Governmental Industrial Hygienists Canadian Environmental Protection Act

Department of Transportation

DOT: Environmental Protection Agency EPA: European Economic Community EEC:

DSL: NA:

Domestic Substance List Not applicable

NE:

Not established

CAS: Chemical Abstract Service

CFR: Code of Federal Regulations

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FDA: Food and Drug Administration (U.S.)

NH: Not hazardous

IARC: International Agency for Research on Cancer PEL: Permissible Exposure Limits

NFPA: National Fire Protection Association TLV: Threshold Limit Value

RCRA: Resource and Conservation Recovery Act TSCA: Toxic Substance Control Act

LC50: The concentration in air that causes death in 50% of the animals exposed

LD50: The dose that causes death in 50% of the animals exposed

mg/m³: Milligrams (mg) of substance per cubic meter (m³) of air; method of expressing the concentration of a

substance in air

IATA: International Air Transportation Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration SARA: Superfund Amendments and Reauthorization Act WHMIS: Workplace Hazardous Material Information System

### NOTICE:

Although the information contained in this MSDS is believed to be correct as of the date hereof, DSM Elastomers Americas makes no representation as to the completeness or accuracy thereof. Those who utilize the product described herein are responsible for determining (a) the suitability of the product for the intended use and (b) the appropriate manner of processing the product to insure safety and quality. In no event will DSM Elastomers Americas be responsible for damages of any nature resulting from the use of or reliance upon the information contained herein.