

Material Safety Data Sheet

Keltan Elastomer

1. GENERAL INFORMATION

Chemical Name: CAS Number:

CAS Name (Rubber Only):

Applicable Grades:

Product Use:

Telephone No.: Manufactured by:

Street Address: Mailing Address:

Date Prepared: Supersedes:

Ethylene, Propylene, Diene, Terpolymer Rubber, Oil-extended

Mixture-NA

[4, 7- Methano-1H-indene, 3a, 4, 7, 7a- tetrahydro-, polymer with ethene and 1-

propene] or [Bicyclo(2,2,1)hept-2-ene, 5-ethylidene-, polymer with ethene and 1-

P557, P558, P597, 5251A, 480x100, 5531D, 512x50, 708x15, 509x100, 5441A

Note: 5251A was previously marketed as MDE248; 5531D was previously marketed as MDE239; 5441 was previously marketed as DE256.

Rubber and rubber modified articles

(504) 355-5655

DSM Copolymer, inc.

5955 Scenic Highway, Baton Rouge, LA 70805 P. O. Box 2591, Baton Rouge, LA 70821

May 26, 1993

CR2260(R9/90)

2. CHEMICAL COMPOSITION

Ingredient **EPDM**

(see Note 1)

CAS# 25034-71-3 or 25038-36-2 or 27026-53-5 64741-88-4 &

64742-01-4

Wt.% Maximum Hazard Classification

NH

NH 50

3. FIRE AND EXPLOSION HAZARD DATA

Flash Point Method:

Auto Ignition Temperature:

Petroleum Oil severely treated

Ignition Temperature:

Combustible:

Upper/Lower Flammable Limits:

Hazardous Combustion Products:

Extinguishing Media:

Special Fire Fighting Procedure:

Upper/Lower Explosive Level: Sensitivity to Impact/Shock: Sensitivity to Static Discharge: 240 °C (465 °F) COC (see Note 2)

In the range 350-380 °C (662-716 °F)

Above 200 °C (392 °F)

No, but the product will burn if ignited.

NE

Carbon monoxide, carbon dioxide, products from incomplete combustion, and various

All fire extinguishing media permitted - foam or water fog recommended.

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

NA

MARKETED BY

HARWICK STANDARD DISTRIBUTION CORPORATION

60 S. Seiberling Street · Akron, Ohio 44305

NEPA FIRE HAZARDS IDENTIFICATION SYSTEM



4 - Extreme

3 - High 2 - Moderate

1 - Slight

0 - Insignificant

SPECIFIC



FDA:

WHMIS:

3 S

4. PHYSICAL DATA Physical State: Solid, bales Appearance: Pale yellow to amber Odor: Odor Threshold: NE Melting/Freezing Points: NA Specific Gravity: 0.86-0.87 **Boiling Point:** NΑ Vapor Pressure: NA Vapor Density: NA Volatiles (% by weight, @105 °C): 0.75 max Solubility in Water at 20 °C: Insoluble Coefficient in Water/Oil Distribution: NE pH: NA Evaporation rate: NA

5. SPECIAL REGULATORY HAZARD-HEALTH, SAFETY, AND FOOD

The Petroleum Oil Component in this product, if present as an oil mist, is regulated under

Hazard Communication Standard 29 CFR Part 1910.1000 (see Section 7 and Note 3). TSCA: Components of this product are listed under TSCA Chemical Substance Inventory.

Grades P557, P558, P597, 5531D can be used in complying with 21CFR 177.2600,

'Rubber Articles Intended for Repeated Use'.

DOT: United States: Designation and labeling not applicable as product is not defined or

designated as a hazardous material by U.S. Department of Transportation under Title 49

of CFR.

Canada: This product is not regulated under the Canadian Transportation of Dangerous

Goods Regulations.

Section 302/304: Extremely Hazardous Substances - None. SARA Title III:

Section 311: Hazardous Substances - Not Applicable.

Section 313: This product is not subject to reporting requirements (See 40 CFR372).

This product is not considered a Controlled Product under Canada's Workplace

Hazardous Material Information System.

CEPA Components of this product are included in Canada's DSL.

EEC: This product are not considered hazardous by the European Economic Community.

6. TOXICOLOGY AND HEALTH DATA

Specific Hazard: No acute or chronic hazards or effects are known.

Medical Conditions

Some individuals with specific sensitivities may exhibit eye, nose, throat or thermal Aggravated by Exposure:

irritation with prolonged exposure to processing fumes or vapors.

Routes of Exposure: Eye Contact: Not a probable route of exposure. Particulates may scratch eye surface

or cause mild imitation.

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.

Ingestion: Not a probable route of exposure.

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

Toxicology Information: LD50 = >15g/kg, rat; LC50 = NA (see Note 2)

Reproductive Effects: None reported Teratogenicity: None reported Mutagenicity: None reported Carcinogenicity: None reported

Other: Skin Irritant: LD50 >8000mg/kg, rabbit (see Note 2)

7. PROTECTIVE AND PREVENTIVE MEASURES

Personal Protective Equipment: Eye: Wear safety glasses.

Skin: Wear clothing appropriate to prevent skin contact. 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, wear a NIOSH approved organic vapor respirator with

mechanical filtration.

Avoid skin and eye contact, practice good personal hygiene. Avoid inhalation of fumes/ Handling Procedures and Equipment:

vapors from hot rubbers, compounds and vulcanizates.

Engineering Controls: Exposure Guidelines:

Local exhaust ventilation is recommended during all hot processing operations.

PEL (OSHA)

TLV (ACGIH) 5 mg/m³

Petroleum Oil as Oil Mist (see Note 3)

5 mg/m³

8. EMERGENCY AND FIRST AID PROCEDURES

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 furnes/vapors are inhaled, move to fresh air, aid breathing if necessary. Obtain

medical attention if irritation persists.

Ingestion:

Unlikely to occur.

9. CHEMICAL REACTIVITY

Chemical Stability:

Product is stable at ambient temperature and pressure.

Conditions to Avoid:

High temperatures, 300-350 °C (572-662 °F) will cause thermal decomposition; ignition

source.

Incompatibility with other Materials:

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, various hydrocarbons, and products from

incomplete combustion.

Hazardous Polymerization:

Will not occur.

None known.

10. SPILLS, DISPOSAL, STORAGE GUIDELINES

Spill and Release Information:

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

contaminated.

Disposal Information:

Reuse if possible. Dispose in accordance with local, state, and federal regulations and

applicable environmental regulations. Material as supplied is not characterized as

hazardous under RCRA.

Storage:

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

11. LABELS

OSHA: WHMIS: NA NA

12. ADDITIONAL INFORMATION

Note 1:

This particular grade of paraffinic oil is blended from the severely solvent refined heavy paraffinic distillate, CAS #64741-88-4, and the severely solvent refined residuum, CAS #64742-01-4. It contains less than 0.1 weight percent polynuclear aromatic compounds and therefore is not considered as carcinogenic under Hazard

Communication Standard Title 29 CFR 1910.1200.

Note 2:

This data represents the lowest possible limit and is for the Petroleum Oil ingredient in this product. The Petroleum Oil is soluble in the EPDM component and data on the

blend has not been established.

Note 3:

Specific exposure standards for this product and its components have not been established. The limits shown in Section 7 are suggested as minimum control guidelines. These exposure limits apply only if aerosols are emitted from this product.

(Continued on reverse.)

DSM Elastomers

Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Service

CEPA: Canadian Environmental Protection Act

CFR: Code of Federal Regulations
DOT: Department of Transportation
DSL: Domestic Substance List
EEC: European Economic Community

EPA: Environmental Protection Agency
FDA: Food and Drug Administration (U.S.)

IARC: International Agency for Research on Cancer

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

NA: Not applicable
NE: Not established
NH: Not hazardous

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limits

RCRA: Resource and Conservation Recovery Act
SARA: Superfund Amendments and Reauthorization Act

TLV: Threshold Limit Value
TSCA: Toxic Substance Control Act

WHMIS: Workplace Hazardous Material Information System

North and South America

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Notice: Although the information contained in this MSDS is believed to be correct as of the date hereof, DSM Copolymer makes no representations 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 ensure safety and quality. In no event will DSM Copolymer be responsible for damages of any nature resulting from the use of or reliance upon the information contained herein.

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