Keltan®

Material Safety Data Sheet

Keltan Elastomer

1. GENERAL INFORMATION

Chemical Name:	Ethylene, propylene, diene, terpolymer rubber, EPDM
CAS Number:	25034-71-3 or 25038-36-2
CAS Name:	[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-propene] or 4,7-Methane-1H indene, 3a,4,7,7a-tetrahydro-polymer with ethene, 5-ethylidene bicyclo [2.2.1] hept-2-ene and 1-propene
Applicable Grades:	40A, 55, 70A, 312, 314, 320, 378, 512, 514, 520, 578, 712, 714, 720, 740, 778, 812, 820, 2306, 2506, 4502, 4506, 4703, 4778, 4802, 4903, 4906, 5206, 5509, 5509, 5636A (DE275), 5806, 6320A (DE262), 6520A (DE284), 7340A (MDE254), 7350A (DE281), and 7506
Product Use:	Rubber and rubber modified articles
Prepared by:	Environmental and Safety Services
Telephone No.:	(504) 355-5655
Manufactured by:	DSM Copolymer, Inc.
Street Address:	5955 Scenic Highway, Baton Rouge, LA 70805
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Date Prepared:	January 1994
Supersedes:	CR 2278(R 9/90)

2. FIRE AND EXPLOSION HAZARD DATA

Flash Point Method:	Above 300 °C (572 °F)
Auto Ignition Temperature:	In the range 350-380 °C (662-716 °F)
Ignition Temperature:	Above 200 °C (392 °F)
Combustible:	No, but the product will burn if ignited.
Upper/Lower Flammable Limits:	NE
Hazardous Combustion Products:	Carbon monoxide, carbon dioxide, products from incomplete combustion, 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.
Upper/Lower Explosive Level:	NA
Sensitivity to Impact/Shock:	NA
Sensitivity to Static Discharge:	NA

NFPA FIRE HAZARDS IDENTIFICATION SYSTEM

4 - Extreme
3 - High
2 - Moderate
1 - Slight
0 - Insignificant

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HARWICK STANDARD DISTRIBUTION CORPORATION
60 S. Seiberling Street • Akron, Ohio 44305

CR2278 issued 9/93

DSM

(CR2278 continued from reverse.)

3. CHEMICAL COMPOSITION

Ingredient	CAS #	Wt.% Maximum	Hazard Classification
EPDM	25034-71-3 or 25038-36-2 or 27026-53-5	99	NH

4. PHYSICAL DATA

Physical State:	Solid, bales
Appearance:	White to amber
Odor:	Slight
Odor Threshold:	NE
Melting/Freezing Points:	NA
Specific Gravity:	0.86-0.88
Boiling Point:	NA
Vapor Pressure:	NA
Vapor Density:	NA
Volatiles (% by weight, @ 105 °C):	0.75-1.0 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

OSHA:	This product is not hazardous under Hazard Communication Standard 29 CFR Part 1910.1200.
TSCA:	Components of this product are listed under TSCA Chemical Substance Inventory.
FDA:	Grades 40A, 70A, 2308, 2506, 2802, 320, 4506, 5206, 5508, 5509, 520, 4502, 4802, 6520A, 6320A, 720, 740, 7506 and 820 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.
SARA Title III:	**Section 302/304:** Extremely Hazardous Substances - None. **Section 311:** Hazardous Substances - Not Applicable. **Section 313:** This product is not subject to reporting requirements (See 40 CFR372).
WHMIS:	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 is 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 Aggravated by Exposure:	Some individuals with specific sensitivities may exhibit eye, nose, throat or thermal 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 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. **Ingestion:** Not a probable route of exposure. **Inhalation:** Not a probable route of exposure under conditions of normal use. Hot fumes or vapors which may form during processing can cause irritation to the respiratory tract.
Toxicology Information:	LD50 = NE; LC50 = NA **Reproductive Effects:** None reported **Tetragenicity:** None reported **Mutagenicity:** None reported **Carcinogenicity:** None reported

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.
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. NA

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 fumes/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:	None known.
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, various hydrocarbons, and products from incomplete combustion.
Hazardous Polymerization:	Will not occur.

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. Materials as supplied are 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 light.

11. LABELS

OSHA:	NA
WHMIS:	NA

12. ADDITIONAL INFORMATION

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 (m^3) 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

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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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DSM

Keltan

Material safety data

Ethylene-propylene-(ter)-polymer EP(D)M

Bales / Granulate

The purpose of this material safety data sheet is to provide comprehensive information on important physical, safety, toxicological and ecological aspects of the material named above, and to convey recommendations for its safe storage, handling and transport.

This Material Safety Data Sheet complies with:
- Directive 91/155/EEC of the Commission of the European Communities.

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