

Products / 제품소개

- Descriptions
- Product Information
- Grade Selection Map
- ➔ MSDS

MSDS

A. PRODUCT NAME :

KEP/VISTALON ETHYLENE PROPYLENE RUBBER
Ethylene Propylene Copolymer /Terpolymer /Oil Extended Polymer

* NOTES

1) Applicable grades of KEP/VISTALON Copolymers(CAS No. 9010-79-1) are

KEP	020P, 070P
VISTALON	503(K), 606

2) Applicable grades of KEP/VISTALON Terpolymers(CAS No. 25038-36-2) are

KEP	210, 240, 270, 281F, 330, 350, 435, 510, 570C, FP, 650, 1030F, 7141
VISTALON	2504, 2605, 7500, 8600,

3) Applicable grades of Oil Extended KEP/VISTALON (CAS No. 25038-36-2 and 64742-54-7) are

KEP	901, 960, 960F, 980
VISTALON	5730

4) Fire Hazard During Storage Exists for High Diene Grades

KEP 330,350,650(L)
VISTALON 8600

If Previously heated above 350°F/177°C unless Oxygen is excluded for the storage area or more Antioxidant is added before storage of the polymer.

Acetic acid is liberated as a hazardous decomposition product from these grades.

B. GENERAL PROPERTIES

Having general properties of rubber.

COLOR: White to slight brown rubber solid.

CHEMICAL FAMILY : Olefin Polymer

C. HARMFUL CLASSIFICATION

Oxidation & stimulating substance.

D. The Use of product

Parts of automobile, cables, roofing sheets and etc.

E. PRODUCED BY

KUMHO POLYCHEM CO. ,LTD

F. SUPPLIER/DISTRIBUTOR INFORMATION

KUMHO POLYCHEM CO., LTD.

G. THE NAME OF PREPARING DEPARTMENT OF MSDS

RESEARCH & DEVELOPMENT CENTER

H. ESTABLISHED DATE: 1994. 8. 1.

I. REVISED DATE & REVISION NUMBER. : 1998. 8. 29. FIFTH TIME

The composition of this mixture may be proprietary information. In the event of a medical emergency, compositional information will be provided to a physician or nurse. This product is not hazardous as defined in CFR1910. 1200

CHEMICAL SUBSTANCES	CAS NUMBER	PERCENTAGE
KEP/VISTALON Copolymers	CAS No. 9010-79-1	100%
KEP/VISTALON Terpolymers	CAS No. 25038-36-2	100%
Oil Extended KEP/VISTALON	CAS No. 25038-36-2	100%
	CAS No. 64742-54-7	100%

A. Hazardous information data

The composition of this mixture may be proprietary information. In the event of a

medical emergency, compositional will be provided to a physician or nurse. This product is not hazardous as defined in CFR1910.1200

B. EYE CONTACT

Particulates may scratch eye surfaces/cause mechanical irritation.

C. SKIN CONTACT

No hazard in normal industrial use.
Exposure to hot material may cause thermal burns.

D. INHALATION

Negligible hazard at ambient temperature(- 18 to 38 Deg c; 0 to 100 Deg F)

E. INGESTION

No hazard in normal industrial use.

A. EYE CONTACT

This product is an inert solid. If in eye, remove as one would any foreign object.

B. SKIN CONTACT

For hot product, immediately immerse in or flush the affected area with large amount of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention. No attempt should be made to remove material from skin or to remove contaminating clothing, as the damaged flesh can be easily torn.

C. INHALATION

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

D. INGESTION

First aid is normally not required.

A. FLASH POINT : > 482 °F

NOTE: Greater than Decomposes.

B. AUTOIGNITION TEMPERATURE :

NOTE: Not Applicable

C. FLAMMABLE LIMITS :

NOTE Not Applicable

D. GENERAL LIMITS

- Solid material may burn at or above the flashpoint, and airborne dust may explode if ignited.
- If thermally decomposed, flammable/toxic gas may be released.
- Toxic gases will be formed upon combustion.
- Fire is accompanied by the evolution of dense black smoke with an acrid odor and may cause lachrymation (watery eyes)

E. FIRE FIGHTING

- Use water spray to cool fire exposed surfaces and to protect personnel. Isolate "fuel" supply to fire.
- Extinguish the fire by cooling with water spray.
- Respiratory and eye protection required for fire fighting personnel.

F. HAZARDOUS COMBUSTION PRODUCTS :

Under Oxygen lean conditions. Carbon Monoxide (CO) and irritating smoke may be produced.

A. LAND SPILL

- Recover spilled material and place in suitable containers for recycle or disposal.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

B. WATER SPILL

- Recover spilled material and place in suitable containers for recycle or disposal.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

A. ELECTROSTATIC ACCUMULATION HAZARD :

No, but use proper grounding procedure

- B. STORAGE TEMPERATURE, °F : Ambient
- C. STORAGE / TRANSPORT PRESSURE, mmHg : Atmosphere
- D. LOADING/ UNLOADING TEMPERATURE, °F : Ambient
- E. VISCOSITY. AT LOADING/ UNLOADING TEMPERATURE., CST: Not Applicable
- F. STORAGE/ KEEP : AVOID THE HEAT OR SUNLIGHT, Store in a well ventilated place

A. PERSONAL PROTECTION :

For open systems at ambient temperatures (– 18 ~ 38°C/ 0 ~ 100° F) where contact is likely, wear safety glasses.

Where contact may occur with hot material, wear thermal resistant gloves, arm protection and a face shield.

B. VENTILATION :

Local exhaust ventilation of process equipment may be needed to control particulate exposures to below the recommended exposure limit. See personnel protection recommendations.

A. SPECIFIC GRAVITY :

0.86 ~ 0.89

B.SOLUBILITY IN WATER,(Kg/m)

INSOLUBLE

C. SP. GRAV. OF VAPOR, at 1 atm (Air =1) :

Not Applicable

D. EVAPORATION RATE, n-Bu Aetate = 1 :

Not Applicable

E. VAPOR PRESSURE, mmHg AT °F :

Not Applicable

F. VISCOSITY OF LIQUID, CST AT °F :

Not Applicable

G. FREEZING/MELTING POINT, °F :

Not Applicable

H. BOILING POINT, °F :

Not Applicable

A. STABILITY :

stable

B. CONDITIONS TO AVOID INSTABILITY :

Extension heating at temperatures above 250°C/482°F can result in decomposition.

C. HAZARDOUS POLYMERIZATION :

Will not occur

D. MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY :

High diene grades should not be heated above 350°F/177°C unless oxygen is excluded or more antioxidant is added before storage.

See PRODUCT IDENTIFICATION Section for list of high diene grades.

E. HAZARDOUS DECOMPOSITION PRODUCTS :

Flammable Hydrocarbons. Certain grades – acetic acid :

See PRODUCT IDENTIFICATION SECTION

*** WORKPLACE EXPOSURE LIMITS**

A. OSHA REGULATION 29 CFR1910.1000 REQUIRES THE FOLLOWING

PERMISSIBLE EXPOSURE LIMITS

5 mg/m² (respirable dust), and 15mg/m² (total dust) based on the OSHA PEL for nuisance dust.

The recommended permissible exposure levels indicated above reflect the levels revised by OSHA in 1989 or in subsequent regulatory activity.

Although the 1989 levels have since been vacated by the 11th Circuit Court of Appeals, EXXON Chemical recommends that the lower exposure levels observed as reasonable worker protection.

B. ACGIH RECOMMENDS THE FOLLOWING THRESHOLD LIMIT VALUES :

a TWA of 10mg/m² (total dust) for nuisance dust.

This product is not regulated.

Observe the all regulations made by administration.

This product is not DOT regulated.

A. TSCA :

Components of these products are listed on the TSCA Inventory.

B. TSCA :

If the reportable quantity of this product is accidentally spilled, the incident is subject to the provisions of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and must be reported to the National Response Center by calling 800-4424-8802(In U.S.A) and KP(061-688-2830)
The reportable spill quantity of this product is 5,880 pounds.

C. SARA TITLE III :

Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the following hazard categories: Not Hazardous

This product does not contain Section 313 Reportable Ingredients.

This information relates to the specific material designated and not be valid for such material used in combination with any other materials or in any process.

Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no presentation, warranty or guarantee is made as to its accuracy, reliability or completeness.

It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

We don't accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

Copyright(c) Kumho Polychem Co., Ltd If you have any questions E-mail / tel. 82-2-6303-3841 / fax. 82-2-6303-3811
KUMHO POLYCHEM CO., LTD. Kumho Building 13FL.#57, Shinmunro 1-Ga, Jongro-Gu, Seoul 110-041, Korea