

# SAFETY DATA SHEET

**Regulation** : In accordance with Regulation (EC) No 1272/2008 [CLP] – amendment- Regulation (EU) 2025/1222

## 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

**Product name** : KEP Oil Extended Ethylene Propylene rubber

**Applicable Grade** : KEP960N, KEP960NF, KEP980N, KEP901N, KEP902N, KEP4640E, KEP4640EP, KEP9570E,

**UFI Code** : Not applicable

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### Recommended use of the chemical and restrictions on use

**Recommended use** : Parts of automobile, Cables, Roofing Sheet, General industrial parts etc.

**Restrictions on use** : Use for recommended use only.

### 1.3 Details of the supplier of the safety data sheet

#### Supplier

**Company name** : KUMHO POLYCHEM CO., LTD.

**Address** : 144-6, Weoulha-dong, Yeosu-City, Cheonranam-Do, Korea

**Emergency phone number** : +82-61-808-2551

**Respondent** : SeungReol Kim

**Fax** : +82-61-808-2560

### 1.4 Emergency Telephone : +82-61-808-2551

## 2 : HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP] – amendment- Regulation (EU) 2025/1222:**

- Not classified

#### 2.1.2 Additional information :

For full text of Hazard- and EU Hazard-statements: see SECTION 16

### 2.2 Label elements

Hazard pictograms : Not applicable

Signal word : Not applicable

Hazard statement : Not applicable

Additional precautionary statements : Not applicable

### 2.3 Other hazards

- According to Annex XIII, the substance does not meet PBT or vPvB criteria.
- According to Regulation(EU) 2017/2100 and 2018/605, the substance does not affect to endocrine system.
- The substance is not listed in Article 59

## 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Chemical Name	CAS number	EC number	EU Reach Registration No.	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL / ATE / M-factor
Distillates (Petroleum) hydrotreated heavy paraffinic	64742-54-7	265-157-1	-	Carc. 1B <sup>1)</sup>	-
Ethylene propylene 5-ethylidene-2-norbornene terpolymer	25038-36-2	607-505-0	-	Not classified	-

1) According to the IP346 method, it is not classified as a carcinogen because it contains less than 3% DMSO.

	Distillates (Petroleum) hydrotreated heavy paraffinic	Ethylene propylene 5-ethylidene-2-norbornene terpolymer	Applicable Grade/s
<b>Content (%)</b>	32 ~ 35	65 ~ 68	KEP960N, KEP960NF
	42 ~ 44	56 ~ 58	KEP980N, KEP4640E, KEP4640EP,
	49 ~ 51	49 ~ 51	KEP901N, KEP902N,
	16 ~ 18	82 ~ 84	KEP9570E

## 4 : FIRST-AID MEASURES

#### **4.1 Description of first aid measures**

##### **General notes**

- Not available

##### **Following eye contact :**

- If in an eye, remove in the same manner as one would when any solid object enters the eye since the product is an inert solid.

##### **Following skin contact :**

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

##### **Following inhalation :**

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

##### **Following ingestion :**

- First aid is normally not required

##### **Self-protection of the first aider :**

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

#### **4.2 Most important symptoms and effects, both acute and delayed**

##### **Acute effects**

- Not available

##### **Delayed effects**

- Not available

#### **4.3 Indication of immediate medical attention and special treatment needed**

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

### **5 : FIRE-FIGHTING MEASURES**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media :**

- Suitable extinguishing media : Foam, Carbon dioxide, Water spray

##### **Unsuitable extinguishing media :**

- Not available

#### **5.2 Special hazards arising from the substance or mixture**

- Due to thermal decomposition and incomplete combustion gases such as black smoke, carbon monoxide and other toxic gases, danger based on inhalation of such gases may occur.

**Hazardous combustion products :**

- Carbon monoxide, other toxic gases

**5.3 Advice for firefighters**

- Depending on the situation, protective equipment such as chemical cartridge respirator for fire-fighting and protective clothing shall be worn.

**6 : ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

**6.1.1 For non-emergency personnel**

**Protective equipment :**

- Wear protective gloves

**Emergency procedures :**

- Stop leak if you can do it without risk.
- Do not touch or walk through spilled material.

**6.1.2 For emergency responders**

- Wear protective gloves
- Ventilate the area.

**6.2 Environmental precautions**

- Pay attention so that product does not flow into the sewage or public water area.

**6.3 Methods and material for containment and cleaning up**

**6.3.1 For containment**

- Sweep up the scattered product and recover into a suitable container.

**6.3.2 For cleaning up**

- Sweep up the scattered product and recover into a suitable container.

**6.3.3 Other information**

- Not available

**6.4 Reference to other sections**

- See also sections 8 and 13 of the Safety Data Sheet.

**7 : HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

**Protective measures :**

- Do not handle until all safety precautions have been read and understood.
- Wash thoroughly after handling.

- Please work with reference to engineering controls and personal protective equipment.

**Measures to prevent fire :**

- Not available

**Measures to protect the environment :**

- Not available

**Measures to prevent aerosol and dust generation :**

- Not available

**Advice on general occupational hygiene :**

- Not available

**7.2 Conditions for safe storage, including any incompatibilities**

**Technical measures and storage conditions :**

- Keep away from direct sunlight and ultraviolet rays. Exposure to direct sunlight and ultraviolet rays cause the polymer to generate light-induced crosslinked gel in the product.
- Avoid wetting and abrupt temperature change when storing this material.
- Please store product at room temperature, and keep it dry. Especially, high ethylene type EP(D)M should be stored in a warm room for more than 48hours prior to use and process.

**Packaging materials :**

- Not available

**Requirements for storage rooms and vessels :**

- Not available

**Storage class**

**Further information on storage conditions :**

- Not available

**7.3 Specific end use(s)**

**Recommendations :**

- Not available

**Industrial sector specific solutions :**

- Not available

**8 : EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Control parameters**

**Occupational Exposure limits**

**EU regulation :** Not available

**ACGIH regulation :** Not regulated

**Biological exposure index :** Not available

**OSHA regulation :** Not available

**NIOSH regulation :** Not available

## **8.2 Exposure controls**

### **8.2.1 Appropriate engineering controls :**

**Substance/mixture related measures to prevent exposure during identified uses :**

- Since volatile matters will be generated at the time of mixing, processing and molding work, install equipment to wash the hands and eyes nearby.

**Structural measures to prevent exposure :**

- Not available

**Organisational measures to prevent exposure :**

- Not available

**Technical measures to prevent exposure :**

- Not available

### **8.2.2 Individual protection measures, such as personal protective equipment :**

**Eye and face protection :**

- Wear facepiece with goggles to protect.
- An eye wash unit and safety shower station should be available nearby work place.

**Skin protection :**

**(i) Hand protection :**

- Wear appropriate protective gloves by considering physical and chemical properties of chemicals.

**(ii) Other skin protection :**

- Wear appropriate protective clothing by considering physical and chemical properties of chemicals.

**Respiratory protection :**

- Wear NIOSH or European Standard EN 149 approved full or half face piece (with goggles) respiratory protective equipment when necessary.

**Thermal hazards :**

- Not available

### **8.2.3 Environmental exposure controls**

**Substance/mixture related measures to prevent exposure :**

- Prevent entry into waterways, sewers, basements or confined areas.

**Instruction measures to prevent exposure :**

- Not available

**Organisational measures to prevent exposure :**

- Not available

**Technical measures to prevent exposure :**

- Not available

## 9 : PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Description :** Solid

**Color :** White or yellow-Green

**Odor :** Slight Odor

**Odor threshold :** Not available

**pH :** Not available

**Melting point/freezing point :** Not available

**Initial boiling point and boiling range :** Not available

**Flash point :** > 250 °C

**Evaporation rate :** Not available

**Flammability (solid, gas) :** Not available

**Upper/lower flammability or explosive limits :** Not available

**Vapor pressure :** Not available

**Solubility (ies) :** Insoluble in water

**Vapor density :** Not available

**Specific gravity :** 0.86 ~ 0.89

**Partition coefficient: n-octanol/water :** Not available

**Auto ignition temperature :** Not available

**Decomposition temperature :** 250 °C

**Viscosity :** Not available

**Molecular weight :** 100,000 ~ 600,000

**Explosive properties :** Not available

**Oxidizing properties :** Not available

**Other information :** Not available

### 9.2 Other information

Not available

## 10 : STABILITY AND REACTIVITY

### 10.1 Reactivity

- Polymerization does not occur.

### 10.2 Chemical stability

- Stable at normal temperature and pressure.

### 10.3 Possibility of hazardous reactions

- Not available

### 10.4 Conditions to avoid

- Not available

### 10.5 Incompatible materials

- Not available

### 10.6 Hazardous decomposition products

- Carbon monoxide, other toxic gases

## 11 : TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

**Oral :** Not classified

- Distillates (Petroleum) hydrotreated heavy paraffinic : Rat - LD<sub>50</sub> = 15,000 mg/kg

**Dermal :** Not classified

- Distillates (Petroleum) hydrotreated heavy paraffinic : Rabbit - LD<sub>50</sub> = 5,000 mg/kg

**Inhalation :** Not classified

- Distillates (Petroleum) hydrotreated heavy paraffinic : Rat – LC50 > 5.53 mg/L / 4h (aerosol)(OECD Guideline 403)

**Skin corrosion/ irritation :** Not classified

- Distillates (Petroleum) hydrotreated heavy paraffinic : Non irritation (rabbit)

**Serious eye damage/ irritation :** Not classified

- Distillates (Petroleum) hydrotreated heavy paraffinic : Non irritation (rabbit)

**Respiratory sensitization :** Not available

**Skin sensitization :** Not classified

- Distillates (Petroleum) hydrotreated heavy paraffinic : Non sensitization (guinea pig)

**Carcinogenicity :** Not classified

- Distillates (Petroleum) hydrotreated heavy paraffinic

**EU CLP** Carc. 1B (According to the IP346 method, it is not classified as a carcinogen because it contains less than 3% DMSO.)

**Mutagenicity :** Not classified

- Distillates (Petroleum) hydrotreated heavy paraffinic :  
Negative reactions were observed in vivo mammalian erythrocyte micronucleus test (OECD Guideline 474)

**Reproductive toxicity :** Not classified

- Distillates (Petroleum) hydrotreated heavy paraffinic : In the reproduction / developmental toxicity screening test using rats, no toxicity was observed. (OECD Guideline 421, GLP)

**Specific target organ toxicity (single exposure) :** Not applicable

**Specific target organ toxicity (repeat exposure) :** Not available

**Aspiration Hazard** : Not available

**Endocrine disrupting properties** :

- According to Regulation(EU) 2017/2100 and 2018/605, the substance does not affect to endocrine system.

#### **11.2 Information on the likely routes of exposure**

Not available

### **12 : ECOLOGICAL INFORMATION**

#### **12.1 Toxicity**

- **Acute aquatic toxicity** : Not available

**Fish** : Not available

**Invertebrates** : Not available

**Algae** : Not available

- **Chronic aquatic toxicity** : Not available

#### **12.2 Persistence and Degradability**

**Persistence** : Not available

**Degradability** : Not available

#### **12.3 Bioaccumulative potential**

**Bioaccumulation** : Not available

**Biodegradation** :

- **Distillates (Petroleum) hydrotreated heavy paraffinic** : 6% biodegradation was observed after 28 days.

**12.4 Mobility in soil** : Not available

**12.5 Results of PBT and vPvB assessment** : Not available

**12.6 Endocrine disrupting properties** : According to Regulation(EU) 2017/2100 and 2018/605, the substance does not affect to endocrine system.

**12.7 Other adverse effects** : Not available

**12.8 Hazardous to the ozone layer** : Not applicable

### **13 : DISPOSAL CONSIDERATIONS**

#### **13.1 Waste treatment methods**

##### **13.1.1 Product / Packaging disposal:**

**Waste codes / waste designations according to Low**

- Not available

##### **13.1.2 Waste treatment-relevant information**

- Waste must be disposed of in accordance with federal, state and local environmental control regulations.

##### **13.1.3 Sewage disposal-relevant information**

- Not available

#### **13.1.4 Other disposal recommendations:**

- Consider the required attentions in accordance with waste treatment management regulation.

### **14 : TRANSPORT INFORMATION**

**14.1 UN Number** : Not applicable

**14.2 UN Proper shipping name** : Not applicable

**14.3 Transport Hazard class** : Not applicable

**14.4 Packing group** : Not applicable

**14.5 Environmental hazards** : Not applicable

**14.6 Special precautions**

**in case of fire** : Not applicable

**in case of leakage** : Not applicable

**14.7 Maritime transport in bulk according to IMO instruments** : Not classified

### **15 : REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture**

**EU Regulatory Information**

**EU Classification :**

**Classification :**

- Distillates (Petroleum) hydrotreated heavy paraffinic : Carc. 1B

**Hazard statement codes :**

- Distillates (Petroleum) hydrotreated heavy paraffinic : H350

**EU SVHC list** : Not regulated

**EU Authorisation list** : Not regulated

**EU Restriction list** : Not regulated

**EU BPR** : Not regulated

**Foreign Regulatory Information**

**External information :**

**U.S.A management information (OSHA Regulation)** : Not regulated

**U.S.A management information (CERCLA Regulation)** : Not regulated

**U.S.A management information (EPCRA 302 Regulation)** : Not regulated

**U.S.A management information (EPCRA 304 Regulation)** : Not regulated

**U.S.A management information (EPCRA 313 Regulation)** : Not regulated

**Substance of Rotterdam Convention** : Not regulated

**Substance of Stockholm Convention** : Not regulated

**Substance of Montreal Protocol** : Not regulated

**Chemical safety assessment** : No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## 16 : OTHER INFORMATION

### 16.1 Indication of changes

**16.1.1 Revision number** : 03

**16.1.2 Date of the latest revision** : 07.Jan.2026

### 16.2 Abbreviations and acronyms

**ACGIH** = American Conference of Government Industrial Hygienists

**CLP** = Classification Labelling Packaging Regulation ; Regulation (EC) No 1272/2008– amendment- Regulation (EU) 2025/1222

**CAS No.** = Chemical Abstracts Service number

**DMEL** = Derived Minimal Effect Levels

**DNEL** = Derived No Effect Level

**EC Number** = EINECS and ELINCS Number (see also EINECS and ELINCS)

**EU** = European Union

**IARC** = International Agency for Research on Cancer

**ISHL** = Industrial Safety & Health Law

**NIOSH** = National Institute for Occupational Safety & Health

**NTP** = National Toxicology Program

**OSHA** = European Agency for Safety and Health at work

**PBT** = Persistent, Bioaccumulative and Toxic substance

**PNEC(s)** = Predicted No Effect Concentration(s)

**REACH** = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 453/2010

**STP** = Sewage Treatment Plant

**SVHC** = Substances of Very High Concern

**vPvB** = Very Persistent and Very Bioaccumulative

**UN** = United Nations

**MARPOL** = International Convention for the Prevention of Pollution from Ships (IMO)

**IBC** = Intermediate Bulk Container

**CERCLA** = Comprehensive Environmental Response, Compensation & Liability Act (US)

**EPCRA** = Emergency Planning and Community Right-to-Know Act (US)

**EINECS** = European Inventory of Existing Commercial chemical Substances

**ELINCS** = European List of Notified Chemical Substances

### 16.3 Key literature reference and sources for data :

- UN Recommendations on the transport of dangerous goods 17th

- Emergency Response Guidebook 2008;  
[http://phmsa.dot.gov/staticfiles/PHMSA/DownloadableFiles/Files/erg2008\\_eng.pdf](http://phmsa.dot.gov/staticfiles/PHMSA/DownloadableFiles/Files/erg2008_eng.pdf)
- EU CLP; <https://echa.europa.eu/information-on-chemicals/cl-inventory-database>
- American Conference of Governmental Industrial Hygienists TLVs and BEIs.
- NIOSH Pocket Guide; <http://www.cdc.gov/niosh/npg/npgdcas.html>
- National Toxicology Program; <http://ntp.niehs.nih.gov/results/dbsearch/>
- IARC Monographs on the Evaluation of Carcinogenic Risks to Humans;  
<http://monographs.iarc.fr>

**16.4 Classification and procedure used to derive the classification for mixtures according to Regulation(EC) 1272/2008(CLP) – amendment- Regulation (EU) 2025/1222 :**

Classification according to Regulation (EC) No 1272/2008 [CLP] – amendment- Regulation (EU) 2025/1222	Classification procedure
Not classified	-

**16.5 Training advice :**

- Do not handle until all safety precautions have been read and understood.

**16.6 Further information :**

This safety data sheet (SDS) is based on the legal provisions of the REACH Regulation, as amended. Its contents are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship. This version of the SDS supersedes all previous versions.