

# SAFETY DATA SHEET

**Regulation** : In accordance with Regulation (EU) 2020/878 (REACH), Annex II

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

### 1.1 Product identifier

**Product name** : KEPA1150

**UFI Code** :

### 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, General industrial parts etc

**Restrictions on use** : No information

### 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** : +82-61-688-2822

**Respondent** : hyunbeen0518@polychem.co.kr

**Fax** : +82-61-688-2850

### 1.4 Emergency Telephone

## SECTION 2 : HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP] :

- 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 product does not affect to endocrine system.
- The substance is not listed in Article 59

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance

Not applicable

### 3.2 Mixture

Description of the mixture :

Mixture of Ethylene propylene Copolymer, Ethylene-1-octene copolymer

Product Chemical Name	Common Name(Synonyms)	CAS number	EC/List number	Content (%)
Ethylene propylene copolymer	1-propene, polymer with ethane	9010-79-1	618-455-4	Secret
Ethylene-1-octene copolymer	Ethylene-1-octene copolymer	26221-73-8	607-890-5	Secret

## SECTION 4 : FIRST-AID MEASURES

### 4.1 Description of first aid measures

#### General notes

- Not available

#### Following eye contact :

- In case of contact with substance, immediately flush eyes with running water at least 20 minutes.

#### Following skin contact :

- In case of contact with substance, immediately flush skin with running water at least 20 minutes.
- Remove and isolate contaminated clothing and shoes.
- Wash contaminated clothing and shoes before reuse.
- Get immediate medical advice/attention.

#### Following inhalation :

- Specific medical treatment is urgent.
- Move victim to fresh air.
- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.

#### Following ingestion :

- Do not let him/her eat anything, if unconscious.
- Get immediate medical advice/attention.

#### 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.

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

### **5.1 Extinguishing media**

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

- Suitable extinguishing media: Dry sand, dry chemical, alcohol-resistant foam, water spray, regular foam, CO2

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

- Unsuitable extinguishing media: High pressure water streams

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

- May be ignited by heat, sparks or flames.
- Fire will produce irritating and/or toxic gases.
- If inhaled, may be harmful.

#### **Hazardous combustion products :**

- Containers may explode when heated.

### **5.3 Advice for firefighters**

- Dike fire-control water for later disposal; do not scatter the material.
- Move containers from fire area if you can do it without risk.
- Fire involving Tanks; Cool containers with flooding quantities of water until well after fire is out.
- Fire involving Tanks; Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- Fire involving Tanks; Always stay away from tanks engulfed in fire.

## **SECTION 6 : ACCIDENTAL RELEASE MEASURES**

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

#### **6.1.1 For non-emergency personnel**

##### **Protective equipment :**

- Please note that materials and conditions to avoid.

##### **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**

- Eliminate all ignition sources.
- Ventilate the area.
- Prevent dust cloud.

### **6.2 Environmental precautions**

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

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

#### **6.3.1 For containment**

- Large Spill; Dike far ahead of liquid spill for later disposal.

#### **6.3.2 For cleaning up**

- Small Spill; Flush area with flooding quantities of water. And take up with sand or other non-combustible absorbent material and place into containers for later disposal.
- With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

#### **6.3.3 Other information**

- Not available

### **6.4 Reference to other sections**

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

## **SECTION 7 : HANDLING AND STORAGE**

### **7.1 Precautions for safe handling**

#### **Protective measures :**

- Please note that materials and conditions to avoid.
- Wash thoroughly after handling.
- Please work with reference to engineering controls and personal protective equipment.

#### **Measures to prevent fire :**

- Be careful to high temperature.

#### **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 :**

- Not available

#### **Packaging materials :**

- Not available

**Requirements for storage rooms and vessels :**

- Store in a closed container.
- Store in cool and dry place.

**Storage class**

**Further information on storage conditions :**

- Not available

**7.3 Specific end use(s)**

**Recommendations :**

- Not available

**Industrial sector specific solutions :**

- Not available

**SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Control parameters**

**Occupational Exposure limits**

**Korea regulation :** Not regulated

**ACGIH regulation :** Not regulated

**Biological exposure index :** Not regulated

**OSHA regulation :** Not regulated

**NIOSH regulation :** Not regulated

**8.2 Exposure controls**

**8.2.1 Appropriate engineering controls :**

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

- Provide local exhaust ventilation system or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

**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.
- Wear breathable safety goggles to protect from particulate material causing eye irritation or other disorder.
- An eye wash unit and safety shower station should be available nearby work place.

**Skin protection :****(i) Hand protection :**

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

**(ii) Other skin protection :**

- Wear appropriate protective chemical resistant clothing.
- 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.
- In case exposed to particulate material, the respiratory protective equipments as follow are recommended.
  - facepiece filtering respirator or air-purifying respirator, high-efficiency particulate air(HEPA) filter media or respirator equipped with powered fan, filter media of use(dust, mist, fume)
- In lack of oxygen(< 19.5%), wear the supplied-air respirator or self-contained oxygen breathing apparatus.

**Thermal hazards :**

- Not available

**8.2.3 Environmental exposure controls****Substance/mixture related measures to prevent exposure :**

- Not available

**Instruction measures to prevent exposure :**

- Not available

**Organisational measures to prevent exposure :**

- Not available

**Technical measures to prevent exposure :**

- Not available

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties****Appearance****Description :** Solid (Pellet)**Color :** Not available**Odor :** Not available**Odor threshold :** Not available**pH :** Not available**Melting point/freezing point :** Not available

**Initial boiling point and boiling range** : Not available  
**Flash point** : Not available  
**Evaporation rate** : Not available  
**Flammability (solid, gas)** : Not available  
**Upper/lower flammability or explosive limits** : Not available  
**Vapor pressure** : Not available  
**Solubility (ies)** : Not available  
**Vapor density** : Not available  
**Specific gravity** : 0.86~0.89  
**Partition coefficient: n-octanol/water** : Not available  
**Auto ignition temperature** : 300 °C  
**Decomposition temperature** : Not available  
**Viscosity** : Not available  
**Molecular weight** : 100000~600000  
**Explosive properties** : Not available  
**Oxidizing properties** : Not available  
**Other information** : Not available

## 9.2 Other information

Not available

## SECTION 10 : STABILITY AND REACTIVITY

### 10.1 Reactivity

- Some of these materials may burn, but none ignite readily.

### 10.2 Chemical stability

- Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

- Containers may explode when heated.
- Fire may produce irritating and/or toxic gases.
- Some liquids produce vapors that may cause dizziness or suffocation.
- Inhalation of material may be harmful.

### 10.4 Conditions to avoid

- Heat, sparks or flames

### 10.5 Incompatible materials

- Flammable material

### 10.6 Hazardous decomposition products

- Irritating and/or toxic gases

## SECTION 11 : TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

**Oral** : Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

**Dermal** : Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

**Inhalation** : Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

**Skin corrosion/ irritation** : Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

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

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

**Respiratory sensitization** : Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

**Skin sensitization** : Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

**Carcinogenicity** : Not classified

OSHA, IARC, NTP, ACGIH, KOREA-ISHL, EU CLP, KOREA-NIER, NITE: Not listed

- Ethylene propylene Copolymer :

OSHA, IARC, NTP, ACGIH, KOREA-ISHL, EU CLP, KOREA-NIER, NITE: Not listed

- Ethylene-1-octene copolymer :

OSHA, IARC, NTP, ACGIH, KOREA-ISHL, EU CLP, KOREA-NIER, NITE: Not listed

**Mutagenicity** : Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

**Reproductive toxicity** : Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

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

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

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

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

**Aspiration Hazard** : Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

**Endocrine disrupting properties** :

- Ethylene propylene Copolymer : According to Regulation(EU) 2017/2100 and 2018/605, the substance does not affect to endocrine system.
- Ethylene-1-octene copolymer : 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

## SECTION 12 : ECOLOGICAL INFORMATION

### 12.1 Toxicity

- **Acute aquatic toxicity** : Not available

**Fish** : Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

**Invertebrates** : Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

**Algae** : Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

- **Chronic aquatic toxicity** : Not available

**Fish** : Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

**Invertebrates** : Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

**Algae** : Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

### 12.2 Persistence and Degradability

**Persistence** : Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

**Degradability** : Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

### 12.3 Bioaccumulative potential

**Bioaccumulation** : Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

**Biodegradation** : Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

#### **12.4 Mobility in soil :**

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

#### **12.5 Results of PBT and vPvB assessment :**

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

#### **12.6 Endocrine disrupting properties :**

- Ethylene propylene Copolymer : According to Regulation(EU) 2017/2100 and 2018/605, the substance does not affect to endocrine system.
- Ethylene-1-octene copolymer : According to Regulation(EU) 2017/2100 and 2018/605, the substance does not affect to endocrine system.

#### **12.7 Other adverse effects :** Not available

- Ethylene propylene Copolymer : Not available
- Ethylene-1-octene copolymer : Not available

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

- Ethylene propylene Copolymer : Not applicable
- Ethylene-1-octene copolymer : Not applicable

## **SECTION 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.

## **SECTION 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

## SECTION 15 : REGULATORY INFORMATION

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

#### EU Regulatory Information

##### EU Classification :

**Classification** : Not regulated

Ethylene propylene Copolymer : Not regulated

Ethylene-1-octene copolymer : Not regulated

**Hazard statement codes** : Not regulated

Ethylene propylene Copolymer : Not regulated

Ethylene-1-octene copolymer : Not regulated

**EU SVHC list** : Not regulated

Ethylene propylene Copolymer : Not regulated

Ethylene-1-octene copolymer : Not regulated

**EU Authorisation list** : Not regulated

Ethylene propylene Copolymer : Not regulated

Ethylene-1-octene copolymer : Not regulated

**EU Restriction list** : Not regulated

Ethylene propylene Copolymer : Not regulated

Ethylene-1-octene copolymer : Not regulated

**EU BPR** : Not regulated

Ethylene propylene Copolymer : Not regulated

Ethylene-1-octene copolymer : Not regulated

#### Foreign Regulatory Information

##### External information :

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

Ethylene propylene Copolymer : Not regulated

Ethylene-1-octene copolymer : Not regulated

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

Ethylene propylene Copolymer : Not regulated

Ethylene-1-octene copolymer : Not regulated

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

Ethylene propylene Copolymer : Not regulated

Ethylene-1-octene copolymer : Not regulated

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

Ethylene propylene Copolymer : Not regulated

Ethylene-1-octene copolymer : Not regulated

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

Ethylene propylene Copolymer : Not regulated

Ethylene-1-octene copolymer : Not regulated

**Substance of Rotterdam Convention :** Not regulated

Ethylene propylene Copolymer : Not regulated

Ethylene-1-octene copolymer : Not regulated

**Substance of Stockholm Convention :** Not regulated

Ethylene propylene Copolymer : Not regulated

Ethylene-1-octene copolymer : Not regulated

**Substance of Montreal Protocol :** Not regulated

Ethylene propylene Copolymer : Not regulated

Ethylene-1-octene copolymer : Not regulated

**Korea Regulatory information (Chemicals Control Act) :**

Ethylene propylene Copolymer : Not regulated

Ethylene-1-octene copolymer : Not regulated

**Korea Regulatory information (Occupational Safety and Health Act) :**

Ethylene propylene Copolymer : Not regulated

Ethylene-1-octene copolymer : Not regulated

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

Ethylene propylene Copolymer : No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Ethylene-1-octene copolymer : No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16 : OTHER INFORMATION

### 16.1 Indication of changes

**16.1.1 Revision number :** 11

**16.1.2 Date of the latest revision :** 2026-04-29

### 16.2 Abbreviations and acronyms

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

**CLP** = Classification Labelling Packaging Regulation ; Regulation (EC) No 1272/2008

**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) :

Classification according to Regulation (EC) No 1272/2008 [CLP]	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.