

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 : KEPA1130

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 propylene 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 propylene copolymer	1-Propene, polymer with ethene, block	106565-43-9	-	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 propylene copolymer : Not available

Dermal : Not available

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

Inhalation : Not available

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

Skin corrosion/ irritation : Not available

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

Serious eye damage/ irritation : Not available

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

Respiratory sensitization : Not available

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

Skin sensitization : Not available

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

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

Mutagenicity : Not available

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

Reproductive toxicity : Not available

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

Specific target organ toxicity (single exposure) : Not available

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

Specific target organ toxicity (repeat exposure) : Not available

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

Aspiration Hazard : Not available

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

Invertebrates : Not available

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

Algae : Not available

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

- **Chronic aquatic toxicity** : Not available

Fish : Not available

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

Invertebrates : Not available

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

Algae : Not available

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

12.2 Persistence and Degradability

Persistence : Not available

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

Degradability : Not available

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

12.3 Bioaccumulative potential

Bioaccumulation : Not available

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

Biodegradation : Not available

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

12.4 Mobility in soil :

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

12.5 Results of PBT and vPvB assessment :

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

12.8 Hazardous to the ozone layer : Not applicable

- Ethylene propylene Copolymer : Not applicable
- Ethylene propylene 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 propylene copolymer : Not regulated

Hazard statement codes : Not regulated

Ethylene propylene Copolymer : Not regulated

Ethylene propylene copolymer : Not regulated

EU SVHC list : Not regulated

Ethylene propylene Copolymer : Not regulated

Ethylene propylene copolymer : Not regulated

EU Authorisation list : Not regulated

Ethylene propylene Copolymer : Not regulated

Ethylene propylene copolymer : Not regulated

EU Restriction list : Not regulated

Ethylene propylene Copolymer : Not regulated

Ethylene propylene copolymer : Not regulated

EU BPR : Not regulated

Ethylene propylene Copolymer : Not regulated

Ethylene propylene copolymer : Not regulated

Foreign Regulatory Information

External information :

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

Ethylene propylene Copolymer : Not regulated

Ethylene propylene copolymer : Not regulated

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

Ethylene propylene Copolymer : Not regulated

Ethylene propylene copolymer : Not regulated

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

Ethylene propylene Copolymer : Not regulated

Ethylene propylene copolymer : Not regulated

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

Ethylene propylene Copolymer : Not regulated

Ethylene propylene copolymer : Not regulated

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

Ethylene propylene Copolymer : Not regulated

Ethylene propylene copolymer : Not regulated

Substance of Rotterdam Convention : Not regulated

Ethylene propylene Copolymer : Not regulated

Ethylene propylene copolymer : Not regulated

Substance of Stockholm Convention : Not regulated

Ethylene propylene Copolymer : Not regulated

Ethylene propylene copolymer : Not regulated

Substance of Montreal Protocol : Not regulated

Ethylene propylene Copolymer : Not regulated

Ethylene propylene copolymer : Not regulated

Korea Regulatory information (Chemicals Control Act) :

Ethylene propylene Copolymer : Not regulated

Ethylene propylene copolymer : Not regulated

Korea Regulatory information (Occupational Safety and Health Act) :

Ethylene propylene Copolymer : Not regulated

Ethylene propylene 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 propylene 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
- 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.