

# KUMHO PETROCHEMICAL

## SAFETY DATA SHEET KUMHO 1502

According to Regulation (EU) No 453/2010

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

#### 1.1. Product identifier

Product name KUMHO 1502

REACH Registration number -

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

Identified uses Raw materials for rubber products (tires, rubber shoes, sneakers, rubber hoses, belts)

Uses advised against Not available.

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

Supplier (OR of KOREA KUMHO Petrochemical Co., Ltd.)

KIST-Europe  
Universitaet des Saarlandes  
66123, Saarbruecken,  
Germany  
Tel: +49 681 9382 334  
Fax: +49 681 9382 319  
e-mail: reach.it@kist-europe.de

Manufacturer Korea Kumho Petrochemical Co., Ltd.

680, Sanggae-dong, Nam-gu  
Ulsan, Korea  
680-180  
Tel : +82-52-259-6051~7  
Fax : +82-52-259-6053

#### 1.4. Emergency telephone number

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Not classified.
Environment	Not classified.

Classification (1999/45/EEC) Not classified.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### 2.2. Label elements

Contains SBR (Styrene-Butadiene Copolymer)  
Resin acids and Rosin acids, potassium salts  
Facid

Label In Accordance With (EC) No. 1272/2008

No pictogram required.

#### 2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

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SBR (Styrene-Butadiene Copolymer)

94-96%

CAS-No.: 9003-55-8

EC No.:

Classification (EC 1272/2008)  
Not classified.Classification (67/548/EEC)  
Not classified.

Resin acids and Rosin acids, potassium salts

1-5%

CAS-No.: 61790-50-9

EC No.: 263-142-4

Classification (EC 1272/2008)  
Not classified.Classification (67/548/EEC)  
Not classified.

Facid

1-5%

CAS-No.: 67701-06-8

EC No.:

Classification (EC 1272/2008)  
Not classified.Classification (67/548/EEC)  
Not classified.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

REACH Registration number

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**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures****Inhalation**

Move into fresh air and keep at rest.

If breathing stops, provide artificial respiration.

If respiratory problems, artificial respiration/oxygen.

Get medical attention if any discomfort continues.

**Ingestion**

Do not give victim anything to drink if he is unconscious.

Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious.

Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

Get medical attention if any discomfort continues.

**Skin contact**

Promptly wash contaminated skin with water. Promptly remove clothing if soaked through and wash the skin with water.

Remove contaminated clothing.

Wash contaminated clothing before reuse.

Get medical attention if any discomfort continues.

**Eye contact**

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

Not available.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treatment may vary with condition of victim and specifics of incident.

**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media****Extinguishing media**

Carbon dioxide or dry powder. Larger fires: Water. Foam.

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**Unsuitable extinguishing media**

Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture****Hazardous combustion products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). In case of fire, toxic gases may be formed.

**Unusual Fire & Explosion Hazards**

Dust may form explosive mixture with air. Heat may cause the containers to explode.

**Specific hazards**

When heated and in case of fire, irritating vapours/gases may be formed. Vapours may be ignited by a spark, a hot surface or an ember.

**5.3. Advice for firefighters****Special Fire Fighting Procedures**

Do not scatter spilled material with more water than needed to fight the fire. Water spray should be used to cool containers. Avoid breathing fire vapours. Keep up-wind to avoid fumes. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

**Protective equipment for fire-fighters**

Wear protective clothing as described in Section 8 of this safety data sheet.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid dust formation. Avoid heat, flames and other sources of ignition. Provide adequate ventilation. Use vapour suppression foam to reduce vapour. Stop leak if possible without risk. DO NOT touch spilled material!

**6.2. Environmental precautions**

Avoid discharge into drains. Avoid discharge onto the ground. If large spills, call emergency services to get advice.

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

Dispose of waste and residues in accordance with local authority requirements. Large Spillages: Build dikes to control spillage. Avoid lowland and keep upwind. Environmental manager must be informed of all major spillages. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Small Spillages: Collect spilled material in appropriate container for disposal Wash thoroughly after dealing with a spillage.

**6.4. Reference to other sections****SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Avoid generating excess dust. Storage tanks and other containers must be grounded. Avoid contact with skin and eyes. Use non sparking handtools and explosion-proof electric equipment. Avoid heat, flames and other sources of ignition. Do not breathe vapour. Do not eat, drink or smoke when using the product.

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

Keep away from heat, sparks and open flame. Avoid exposing to heat and contact with strong oxidising substances. Store in a cool and well-ventilated place.

**7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Biological Limit Values**

Not applicable.

DNEL

Not available.

PNEC

Not available.

**8.2. Exposure controls****Protective equipment**

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**Process conditions**

Provide eyewash station. Provide eyewash, quick drench.

**Engineering measures**

Provide adequate general and local exhaust ventilation.

**Respiratory equipment**

Wear suitable respiratory protection. Suitable respiratory protection must be used at high concentrations. An approved dust respirator is recommended as appropriate depending on dust levels and other workplace factors.

**Hand protection**

Use suitable protective gloves if risk of skin contact. Where handling at high temperature, wear heat resistant gloves.

**Eye protection**

If risk of splashing, wear safety goggles or face shield.

**Hygiene measures**

Wash hands after handling.

**Skin protection**

Wear apron or protective clothing in case of splashes.

**Environmental Exposure Controls**

Not available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Solid
<b>Colour</b>	Ivory
<b>Odour</b>	Mild.
<b>Solubility</b>	Insoluble in water
<b>Initial boiling point and boiling range</b>	Not applicable.
<b>Melting point (°C)</b>	Not applicable.
<b>Relative density</b>	0.92 ~ 0.96
<b>Vapour density (air=1)</b>	Not applicable.
<b>Vapour pressure</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>pH-Value, Conc. Solution</b>	Not available.
<b>pH-Value, Diluted Solution</b>	Not available.
<b>Viscosity</b>	Not applicable.
<b>Decomposition temperature (°C)</b>	Not available.
<b>Flash point</b>	246 °C
<b>Auto Ignition Temperature (°C)</b>	> 388 °C
<b>Flammability Limit - Lower(%)</b>	Not available.
<b>Flammability Limit - Upper(%)</b>	Not available.
<b>Partition Coefficient (N-Octanol/Water)</b>	Not applicable.
<b>Other Flammability</b>	Not available.
<b>Mol. Weight</b>	≈ 500, 000

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**

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Not applicable.

**10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

**10.3. Possibility of hazardous reactions**

Not applicable.

**10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

**10.5. Incompatible materials****Materials To Avoid**

Not available.

**10.6. Hazardous decomposition products**

During fire, toxic gases (CO, CO<sub>2</sub>) are formed. Hydrocarbons.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Acute toxicity:****Acute Toxicity (Oral LD50)**

Not available.

**Acute Toxicity (Dermal LD50)**

Not available.

**Acute Toxicity (Inhalation LC50)**

Not available.

**Skin Corrosion/Irritation:**

Not available.

**Serious eye damage/irritation:**

Not available.

**Respiratory or skin sensitisation:****Respiratory sensitisation**

Not available.

**Skin sensitisation**

Not available.

**Germ cell mutagenicity:****Genotoxicity - In Vitro**

Not available.

**Genotoxicity - In Vivo**

Not available.

**Carcinogenicity:****Carcinogenicity**

Not available.

**Reproductive Toxicity:****Reproductive Toxicity - Fertility**

Not available.

**Reproductive Toxicity - Development**

Not available.

**Specific target organ toxicity - single exposure:****STOT - Single exposure**

Not available.

**Specific target organ toxicity - repeated exposure:****STOT - Repeated exposure**

Not available.

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**Aspiration hazard:**

Not available.

**Skin contact**

May cause sensitisation by skin contact.

**Eye contact**

May cause sensitisation by eye contact.

**Toxicological information on ingredients.****Resin acids and Rosin acids, potassium salts (CAS: 61790-50-9)****Acute toxicity:****Acute Toxicity (Oral LD50)**

> 2000 mg/kg Rat

**Acute Toxicity (Dermal LD50)**

> 2000 mg/kg Rat

**Acute Toxicity (Inhalation LC50)**

Endpoint waived according to REACH Annex VII, IX or XI.

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**SECTION 12: ECOLOGICAL INFORMATION**


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**12.1. Toxicity****Acute Toxicity - Aquatic Invertebrates**

Not available.

**Acute Toxicity - Aquatic Plants**

Not available.

**Acute Toxicity - Microorganisms**

Not available.

**Chronic Toxicity - Fish Early life Stage**

Not available.

**Short Term Toxicity - Embryo and Sac Fry Stages**

Not available.

**Chronic Toxicity - Aquatic Invertebrates**

Not available.

**Acute Toxicity - Terrestrial**

Not available.

**Ecological information on ingredients.****Resin acids and Rosin acids, potassium salts (CAS: 61790-50-9)****Acute Toxicity - Fish**

LC50 96 hours 60.3 mg/l Brachydanio rerio (Zebra Fish)

**Acute Toxicity - Aquatic Invertebrates**

EC50 48 hours 3.8 mg/l Daphnia magna

**Acute Toxicity - Aquatic Plants**

NOEC 96 hours 0.0125 mg/l Scenedesmus subspicatus

**12.2. Persistence and degradability**

Not available.

**12.3. Bioaccumulative potential****Bioaccumulation factor**

Not available.

**Partition coefficient**

Not applicable.

**12.4. Mobility in soil****Mobility:**

Not available.

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**12.5. Results of PBT and vPvB assessment**

Not available.

**12.6. Other adverse effects**

Not available.

**SECTION 13: DISPOSAL CONSIDERATIONS****General information**

Only experts should be permitted to carry out disposal of this material.

**13.1. Waste treatment methods**

Dispose of contents/containers in accordance with local/regional/national/international regulations.

**SECTION 14: TRANSPORT INFORMATION****General**

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**14.1. UN number**

Not applicable.

**14.2. UN proper shipping name**

Not available.

**14.3. Transport hazard class(es)**

Not available.

**14.4. Packing group**

Not available.

**14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant

No.

**14.6. Special precautions for user**

Not available.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not available.

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Authorisations (Title VII Regulation 1907/2006)**

No specific authorisations are noted for this product.

**Restrictions (Title VIII Regulation 1907/2006)**

No specific restrictions of use are noted for this product.

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

<b>Issued By</b>	KIST Europe
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<b>Revision</b>	0
<b>Safety Data Sheet Status</b>	Approved.

#### Disclaimer

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