

KUMHO PETROCHEMICAL

SAFETY DATA SHEET

KUMHO KTR 301

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010, COMMISSION REGULATION (EU) 2015/830 of 28 May 2015.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name KUMHO KTR 301

REACH registration notes Monomer is registered instead of Styrene-Butadiene-Styrene copolymer. (Registration number of monomer: 1,3-Butadiene; 01-2119471988-16-****, Styrene; 01-2119457861-32-****)

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

Identified uses Not available.

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 Forschungsgesellschaft mbH
Campus E71
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.
118, Yeosusandan 3-ro, Yeosu-si,
Jeollanam-do, 59612, Korea
Tel: +82 61 688 3060-9
Fax: +82 61 688 3168

1.4. Emergency telephone number

Emergency telephone +49 551 19240
GIZ-Nord, Goettingen, Germany (English only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC/1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Hazard statements NC Not Classified

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2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Styrene-Butadiene Copolymer	65-66%
CAS number: 9003-55-8	
Classification Not Classified	
Distillates (petroleum), hydrotreated heavy paraffinic	32-34%
CAS number: 64742-54-7	EC number: 265-157-1
	REACH registration number: 01-2119484627-25-XXXX
Classification Not Classified	
Additives	1-2 %
CAS number: Proprietary	EC number: Proprietary
Classification Not Classified	

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Prevent blocking the airway. Get medical attention if any discomfort continues.
Ingestion	Give 3-4 cups of water and do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If conscious, rinse mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.
Skin contact	Wipe the site of contamination with a dry towel and then wash with soap. Remove contaminated clothing. Laundry all contaminated clothes thoroughly before reuse. If burned by hot product, cool affected area immediately with cool water. Flush with flowing water of shower if irritation persists. Get medical attention.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if necessary.

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

Notes for the doctor Treatment may vary with condition of victim and specifics of incident.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder. Water spray.

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Unsuitable extinguishing media Water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards Forms explosive mixtures with air.

Hazardous combustion products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Toxic gas. Smoke.

5.3. Advice for firefighters

Protective actions during firefighting Avoid generation and spreading of dust. Keep up-wind to avoid fumes. Avoid dust close to ignition sources. Fight advanced or massive fires from safe distance or protected location.

Special protective equipment for firefighters Wear appropriate protective clothing. Remove any flammable materials from the fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin and eyes. Avoid inhalation of dust. Take appropriate preventive measures.

6.2. Environmental precautions

Environmental precautions Avoid spreading dust or contaminated materials. Do not discharge into drains or watercourses or onto the ground. If large spills, call emergency services to get advice.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Collect and place in suitable waste disposal containers and seal securely. Re-package the dismantled rubber and reuse if possible. Avoid generation and spreading of dust. Provide adequate ventilation. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Avoid inhalation of dust. Avoid prolonged or repeated exposure. Protect against direct sunlight. Eliminate all sources of ignition. Avoid handling which leads to dust formation. Provide adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in a cool and well-ventilated place. Keep container dry. Keep away from heat, sparks and open flame. Store and handle in accordance with all current regulations and standards. Keep container tightly sealed when not in use.

7.3. Specific end use(s)

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

Occupational exposure limits

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8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

The following protection should be worn: Chemical splash goggles.

Hand protection

Use chemical resistance gloves satisfy the standard EN 374.

Other skin and body protection

Wear appropriate chemical resistant clothing.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: High-efficiency particulate filter. Under high or unknown dust concentration use self contained breathing apparatus or air supplied respirator with full facepiece.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Amorphous solid.
Colour	Not available.
Odour	Mild.
Melting point	Not available.
Initial boiling point and range	Not available.
Flash point	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	0.91 - 0.97 @ °C
Bulk density	Not available.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not available.
Auto-ignition temperature	400°C
Decomposition Temperature	Not available.
Viscosity	Scientifically unjustified.
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information

Particle size Not available.

SECTION 10: Stability and reactivity

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10.1. Reactivity

Reactivity Not available.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Will not occur. May polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) Not available.

Acute toxicity - dermal

Notes (dermal LD₅₀) Not available.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Not available.

Skin corrosion/irritation

Animal data Erythema/eschar score: Not available. Oedema score: Not available. Not available.

Extreme pH

Not available.

Serious eye damage/irritation

Serious eye damage/irritation 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.

Toxicological information on ingredients.

Styrene-Butadiene Copolymer

Carcinogenicity

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Carcinogenicity

Butadiene Styrene : IARC group 3

SECTION 12: Ecological Information

Ecotoxicity There are no data on the ecotoxicity of this product.

12.1. Toxicity

Acute toxicity - fish Not available.

Acute toxicity - aquatic invertebrates Not available.

Acute toxicity - aquatic plants Not available.

Acute toxicity - microorganisms Not available.

Acute toxicity - terrestrial 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.

12.2. Persistence and degradability

Persistence and degradability No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

12.4. Mobility in soil

Surface tension Scientifically unjustified.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment Not available.

12.6. Other adverse effects

Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of contents/containers in accordance with local/regional/national/international regulations. Contact a licensed professional waste disposal service to dispose of this material.

SECTION 14: Transport information

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

14.1. UN number

Not a dangerous goods.

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14.2. UN proper shipping name

Not a dangerous goods.

14.3. Transport hazard class(es)

Not a dangerous goods.

14.4. Packing group

Not a dangerous goods.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

Not available

14.6. Special precautions for user

Not a dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78
and the IBC Code**

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 known for this product.

**Restrictions (Title VIII
Regulation 1907/2006)** No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Issued by	KIST Europe
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SDS number	10377
SDS status	Approved.

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