

SAFETY DATA SHEET KTR-201, KTR-201P

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 KTR-201, KTR-201P

REACH registration number -

REACH registration notesMonomer 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 usesNot available.Uses advised againstNot 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

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Hazard statements NC Not Classified

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Styrene-Butadiene Copolymer 98 - 99 %

CAS number: 9003-55-8

ClassificationNot Classified

Additives 1-2 %

CAS number: -

ClassificationNot 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

General information Get medical attention.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues. If breathing stops,

provide artificial respiration.

Ingestion Rinse mouth. Do not induce vomiting unless under the direction of medical personnel. If

vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get

medical attention if any discomfort continues.

Skin contact Remove contaminated clothing and rinse skin thoroughly with water. Continue to rinse for at

least 15 minutes. Get medical attention if any discomfort continues.

Eye contact Do not rub eye. Remove any contact lenses and open eyelids wide apart. Continue to rinse

for at least 15 minutes. Get medical attention if irritation persists after washing.

4.2. Most important symptoms and effects, both acute and delayed

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 dry sand. Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemicals. Water

spray.

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

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Specific hazards Irritating gases or vapours. Dust or gas may ignite by flames. Dust may form explosive

mixture with air. May explode when heated or when exposed to flames or sparks. Containers

can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion

products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting

Keep up-wind to avoid fumes. Fight advanced or massive fires from safe distance or protected location. Avoid inhalation of materials or combustion by-products. Cool containers exposed to flames with water until well after the fire is out. Move containers from fire area if it can be done

without risk.

Special protective equipment

Use protective equipment appropriate for surrounding materials.

for firefighters

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Avoid heat,

flames and other sources of ignition. Keep upwind. Do not handle broken packages without

protective equipment. Provide adequate ventilation. Avoid generation of dust.

6.2. Environmental precautions

Environmental precautions Store away from waterwork or drainage system. Prevent run-off from entering ground, storm

sewers and ditches which lead to natural waterways. If large spills, call emergency services to

get advice.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Small Spillages: Collect spilled material in appropriate container for disposal. Large Spillages: Keep up-wind to avoid fumes. Build dikes to control spillage. Avoid lowland and keep upwind. Dispose of contents/containers in accordance with local / regional / national / international regulations.

6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8. For waste disposal, see 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. Storage tanks and other containers must be earthed. Avoid heat, flames and other sources of ignition. Wash thoroughly after handling. Do not act pressure, cutting, welding, soldering, drilling, grinding, etc. All handling should only take place in well-ventilated areas. Avoid handling which leads to dust formation. Avoid inhalation of dust and contact with skin and eyes. Avoid temperature >316 °C.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store and handle in accordance with all current regulations and standards. Keep container

tightly sealed when not in use. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Do not store near heat sources or expose to high temperatures. Protect

against direct sunlight.

7.3. Specific end use(s)

Specific end use(s) Not available.

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SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

ACGIH

Ingredient comments No exposure limits known for ingredient(s).

8.2. Exposure controls

Protective equipment







Appropriate engineering

controls

Provide adequate general and local exhaust ventilation.

Eye/face protection The following protection should be worn: Chemical splash goggles.

Hand protection Wear suitable gloves.

Other skin and body

protection

Wear suitable protective clothing.

Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Provide

eyewash station and safety shower. Wash hands after handling.

or heavy exposure, respiratory protection may be needed. In case of dust formation, wear

respirator with particle filter.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Solid

Colour White.

Odour Not available.

Odour threshold Not available. Not available.

pH Not available. Not available.

Melting point Not applicable.

Initial boiling point and range Not applicable.

Flash point Not available.

Evaporation rate Not applicable.

Upper/lower flammability or

explosive limits

Not available.

Other flammability Not available.

Vapour pressure Not applicable.

Vapour density Not applicable.

Relative density 0.94 @ °C

Solubility(ies) Insoluble in water.

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Partition coefficient Not applicable.

Auto-ignition temperature Not available.

Decomposition Temperature Not available.

Viscosity Not applicable.

Explosive properties Not available.

Oxidising properties Not available.

9.2. Other information

Molecular weight Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Not available.

10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended. Avoid above 316

°C.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Will not occur.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid contact with incompatible materials.

10.5. Incompatible materials

Materials to avoid Acids and bases. Flammable/combustible materials. Hydrocarbons - halogenated. 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. Hydrocarbons. Hydrogen cyanide (HCN).

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 Not available.

Serious eye damage/irritation

Serious eye damage/irritation Not available.

Germ cell mutagenicity

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Genotoxicity - in vitro

Not available.

Genotoxicity - in vivo

Not available.

Carcinogenicity

Carcinogenicity Not available. Contains Styrene-Butadiene Copolymer classified as IARC Group 3

carcinogens.

Reproductive toxicity

Reproductive toxicity - fertility Not available.

Reproductive toxicity - Not available.

development

Specific target organ toxicity - single exposure

STOT - single exposure

Not available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not available.

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 Not available.

invertebrates

Acute toxicity - aquatic plants

Not available.

Acute toxicity - Not available.

microorganisms

Acute toxicity - terrestrial Not available.

Chronic toxicity - fish early life Not available.

stage

Short term toxicity - embryo Not available. and sac fry stages

Chronic toxicity - aquatic Not available.

invertebrates

12.2. Persistence and degradability

Persistence and degradability Not available.

Biodegradation Not available.

12.3. Bioaccumulative potential

Partition coefficient Not applicable.

12.4. Mobility in soil

Mobility Not available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

This product does not contain any substances classified as PBT or vPvB.

assessment

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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. Waste is suitable for incineration. If the waste contains designated waste and difficult to separate, incinerate it or reduce the volume following the similar way as

incineration. If applicable, pretreat waste with oil/water separation.

Disposal methods Confirm disposal procedures with environmental engineer and local regulations. Dispose of

the waste by oneself or contact disposal company.

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 applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No

14.6. Special precautions for user

Not applicable.

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

No specific restrictions on use are known for this product.

Regulation 1907/2006)

15.2. Chemical safety assessment

SECTION 16: Other information

Issued by KIST Europe

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Revision date 02/01/2018

Revision 2

SDS status Approved.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.