

SAFETY DATA SHEET KUMHO KNV 0072N

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 KNV 0072N

REACH registration number -

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

Identified uses Raw materials for rubber products needing oil-proof characteristic (automobile parts, rubber

hoses, gaskets, 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 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.

64, Sanggae-ro, Nam-gu

Ulsan, Korea 680-180

Tel: +82-52-259-6051~7 Fax: +82-52-259-6053

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

KUMHO KNV 0072N

Hazard statements NC Not Classified

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

BUTADIENE-ACRYLONITRILE POLYMER

70 %

CAS number: 9003-18-3

Classification Not Classified

Polyvinyl Chloride 30%

Classification
Not Classified

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

Composition comments Monomer is registered instead of Butadiene-Acrylonitrile polymer. (Registration number of

monomer: Acrylonitrile: 01-2119474195-34-****, Butadiene: 01-2119471988-16-****)

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.

Ingestion Rinse mouth. Do not induce vomiting unless under the direction of a qualified medical

professional or poison control center. 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. Wash contaminated

clothing before reuse. 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.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with dry sand. Dry chemicals. Water spray. Foam. Carbon dioxide (CO2).

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

KUMHO KNV 0072N

Specific hazards Irritating gases or vapours. Dust or gas may ignite by flames. Containers can burst violently or

explode when heated, due to excessive pressure build-up. Partly flammable but does not

simply ignite.

Hazardous combustion

products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Hydrocarbons. Hydrogen cyanide (HCN). Ammonia.

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. Keep unnecessary people away, isolate hazard and deny entry.

Special protective equipment

for firefighters

Use protective equipment appropriate for surrounding materials.

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. Provide adequate ventilation. Avoid

inhalation of dust and contact with skin and eyes.

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: Avoid lowland and keep upwind. Sweep up and shovel. Keep in suitable, closed containers for disposal. 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

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. Provide adequate ventilation. Avoid contact with skin and eyes. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store and handle in accordance with all current regulations and standards. Do not store near heat sources or expose to high temperatures. Protect against direct sunlight. Keep container tightly sealed when not in use. Earth container and transfer equipment to eliminate sparks from static electricity.

7.3. Specific end use(s)

Specific end use(s)

Not available.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

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

KUMHO KNV 0072N

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. Wear safety glasses with

side-shields conforming to EN166.

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.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. Under frequent use

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 Yellow-white.

Odour Mild.

Odour threshold Not available. Not available.

pH Not available.

Melting point Not applicable.

Initial boiling point and range Not applicable.

Flash point Not applicable.

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 Not applicable.

Solubility(ies) Insoluble in water.

Partition coefficient Not applicable.

Auto-ignition temperature Not available.

Decomposition Temperature Not available.

Viscosity Not applicable.

KUMHO KNV 0072N

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

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

10.3. Possibility of hazardous reactions

Possibility of hazardous

Will not occur.

reactions

10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Not available.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Hydrocarbons. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen. Sulphurous gases (SOx).

Hydrogen cyanide (HCN). Ammonia.

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

Genotoxicity - in vitro

Not available.

Genotoxicity - in vivo

Not available.

Carcinogenicity

Carcinogenicity Not available.

Reproductive toxicity

Reproductive toxicity - fertility Not available.

KUMHO KNV 0072N

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.

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 -

Not available.

microorganisms

Acute toxicity - terrestrial Not available.

Chronic toxicity - fish early life Not available.

stage

Short term toxicity - embryo

and sac fry stages

Not available.

Chronic toxicity - aquatic

invertebrates

Not available.

12.2. Persistence and degradability

Persistence and degradability Not available.

Not available. Biodegradation

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

12.6. Other adverse effects

Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is suitable for incineration. If applicable, pretreat waste with oil/water separation.

Incinerate waste or reduce the volume following the similar way as incineration.

KUMHO KNV 0072N

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

No chemical safety assessment has been carried out.

SECTION 16: Other information

Issued by KIST Europe

Revision date 19/04/2017

Revision 1

SDS number 20463

SDS status Approved.

KUMHO KNV 0072N

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.