



SAFETY DATA SHEET

NBR - KNB 35LM

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 NBR - KNB 35LM
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.

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 BUTADIENE-ACRYLONITRILE POLYMER
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

3.1. Mixtures

BUTADIENE-ACRYLONITRILE POLYMER 97-99%
CAS-No.: 9003-18-3 EC No.:

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

Resin acids and Rosin acids, potassium salts 1-2%
CAS-No.: 61790-50-9 EC No.: 263-142-4

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

Facid < 1%
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 -

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Get medical attention.

Inhalation

Move into fresh air and keep at rest.

If respiratory problems, artificial respiration/oxygen.

Get medical attention if any discomfort continues.

Ingestion

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.

Rinse mouth.

Skin contact

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

Wash contaminated clothing before reuse.

Get medical attention if any discomfort continues.

Eye contact

Do not rub eye. Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing.

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

Eye contact

May cause minor irritation on eye.

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

Water. Foam. Carbon dioxide (CO₂). Dry chemicals.

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

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Unusual Fire & Explosion Hazards

Heat may cause the containers to explode.

Specific hazards

When heated and in case of fire, irritating vapours/gases may be formed. Dust or gas may ignite by flames.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Keep up-wind to avoid fumes. Fight advanced or massive fires from safe distance or protected location. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Avoid inhalation of materials or combustion by-products

Protective equipment for fire-fighters

Use protective equipment appropriate for surrounding materials.

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 heat, flames and other sources of ignition. Keep upwind. Stop leak if possible without risk. Move container from fire area if it can be done without risk.

6.2. 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

Small Spillages: Collect spilled material in appropriate container for disposal Avoid lowland and keep upwind. Large Spillages: Dispose of contents/containers in accordance with local/regional/national/international regulations

6.4. 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

Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Avoid contact with skin and eyes. Avoid heat, flames and other sources of ignition. Wash thoroughly after handling. Handle and open container with care

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly sealed when not in use. 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.

7.3. Specific end use(s)

Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments

No exposure limits noted for ingredient(s).

8.2. Exposure controls

Protective equipment



Process conditions

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash, quick drench.

Engineering measures

Provide adequate general and local exhaust ventilation.

Respiratory equipment

Wear suitable respiratory protection. Under frequent use or heavy exposure, respiratory protection may be needed.

Hand protection

Wear suitable gloves.

Eye protection

Wear approved safety goggles.

Hygiene measures

Wash hands after handling.

Skin protection

Wear suitable protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Solid
Colour	Yellow white
Odour	Mild.
Solubility	Insoluble in water
Initial boiling point and boiling range	Not applicable.
Melting point (°C)	Not applicable.
Relative density	Not available.
Vapour density (air=1)	Not available.
Vapour pressure	Not applicable.
Evaporation rate	Not available.
pH-Value, Conc. Solution	Not available.
Viscosity	Not available.
Decomposition temperature (°C)	Not available.
Odour Threshold, Lower	Not available.
Odour Threshold, Upper	Not available.
Flash point	246 °C
Auto Ignition Temperature (°C)	> 388 °C
Flammability Limit - Lower (%)	Not available.
Flammability Limit - Upper (%)	Not available.
Partition Coefficient (N-Octanol/Water)	Not applicable.
Explosive properties	Not applicable.
Other Flammability	Not available.
Oxidising properties	Not available.

9.2. Other information

Mol. Weight	Not available.
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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not available.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Protect against direct sunlight.

10.5. Incompatible materials

Materials To Avoid

Not available.

10.6. Hazardous decomposition products

Hydrocarbons. In case of fire, toxic gases (CO, CO₂, NO_x) may be formed. Sulphurous gases (SO_x). Hydrogen cyanide (HCN).

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 sensitization	Not available.
Skin sensitization	Not available.

Germ cell mutagenicity:

Genotoxicity - In Vitro	Not available.
Genotoxicity - In Vivo	Not available.

Carcinogenicity:

Carcinogenicity	Not available.
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Reproductive Toxicity:

Reproductive Toxicity – Fertility	Not available.
Reproductive Toxicity – Development	Not available.

Specific target organ toxicity - single exposure:

STOT - Single exposure	Not available.
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Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure	Not available.
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Toxicological information on ingredients.

Facid (CAS: 67701-06-8)

Acute toxicity:

Acute Toxicity (Oral LD50)	> 2000 mg/kg Rat
Acute Toxicity (Dermal LD50)	> 2000 mg/kg Rabbit
Acute Toxicity (Inhalation LC50)	> 0.1621 mg/l (vapours) Rat 4 hours

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.

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.
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.
<u>Ecological information on ingredients.</u>	

Facid (CAS: 67701-06-8)

Acute Toxicity – Fish	LC50 96 hours 1354.4 mg/l <i>Lepomis macrochirus</i> (Bluegill)
Acute Toxicity - Aquatic Invertebrates	EC50 48 hours > 4.8 mg/l <i>Daphnia magna</i>
Acute Toxicity - Aquatic Plants	EC50 72 hours > 0.9 mg/l <i>Selenastrum capricornutum</i> (based on the growth rate)

Resinacids and Rosinacids, potassium salts (CAS: 61790-50-9)

Acute Toxicity – Fish	LC50 96 hours 60.3 mg/l <i>Brachydanio rerio</i> (Zebra Fish)
Acute Toxicity - Aquatic Invertebrates	EC50 48 hours 3.8 mg/l <i>Daphnia magna</i>
Acute Toxicity - Aquatic Plants	NOEC 96 hours 0.0125 mg/l <i>Scenedesmus subspicatus</i>

12.2. Persistence and degradability

Not available.

Biodegradation

Not available.

12.3. Bioaccumulative potential

Bioaccumulation factor Not available.

Partition coefficient Not applicable.

12.4. Mobility in soil

Mobility: Not available.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

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 the waste by oil/water separation.

13.1. Waste treatment 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 regulation 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 MARPOL73/78 and the IBC Code**
Not applicable.

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**
A chemical safety assessment has been carried out for Resin acids and Rosin acids, potassium salts (CAS:61790-50-9) and Facid (CAS:67701-06-8).

SECTION 16: OTHER INFORMATION

Issued By	KIST Europe
Safety Data Sheet Status	Approved.
Date	23.08.2013
Risk Phrases In Full	
NC	Not classified.
Hazard Statements In Full	

Disclaimer

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.