Material Safety Data Sheet according to 91/155/EEC, EC 1907/2006 ANNEX II, the standards and regulatory requirements of United States. Date of issue: 01/09/2005

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Product Name: NBR ERIKS compounds
MSDS N°: N0001
Chemical Name: Acrylonitrile-butadiene copolymer
Company: ERIKS Nederland
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Fax +31 72 / 515 56 45
info@eriks.nl
www.eriks.nl
www.O-ring.info

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Nature (preparation)

Description: Acrylonitrile-butadiene copolymer (CAS number: 9003-18-3)

<table>
<thead>
<tr>
<th>Hazardous Ingredient</th>
<th>CAS#</th>
<th>Amount</th>
<th>Exposure Limits</th>
<th>EU 1907/2006 Candidate List</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL</td>
<td>ACGIH TVL</td>
</tr>
<tr>
<td>Acrylonitrile</td>
<td>107-13-1</td>
<td>&lt;10 ppm</td>
<td>2 ppm TWA</td>
<td>2 ppm TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 ppm AL</td>
<td>A2, Skin</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10 ppm Ceiling</td>
<td></td>
</tr>
<tr>
<td>Butadiene</td>
<td>106-99-0</td>
<td>&lt;0.2 ppm</td>
<td>1 ppm TWA</td>
<td>2 ppm TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5 ppm STEL</td>
<td>A2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.5 ppm AL</td>
<td></td>
</tr>
</tbody>
</table>

Does not contain diethylhexyl phthalate (DEHP).

3. HAZARDS IDENTIFICATION

Potential Health Effects
Possible routes of entry include skin & eye contact and process vapor or dust inhalation. Smokers should avoid contamination of tobacco products with polymer and should wash their hands before smoking.

Disclaimer: The content of this document has been composed with the utmost care. However, it is possible that certain information changes over time, becomes inaccurate or incomplete. ERIKS does not guarantee that the information provided on this document is up to date, accurate and complete; the information provided is not intended to be advice. ERIKS shall never be liable for damage resulting from the use of the information provided.
4. FIRST AID MEASURES

Inhalation
Remove the affected individual to fresh air. Consult a physician if symptoms persist.

Skin contact:
Wash with soap and water.

Eye contact:
Flush eyes with plenty of water. Consult a physician if symptoms persist.

Ingestion:
Not expected to occur during normal use of product.

5. FIRE FIGHTING MEASURES

Extinguishing Media
Water, Foam, Dry Chemical, CO₂

Fire Fighting Instructions
Wear self-contained breathing apparatus. Wear full protective equipment.

Exposure Hazards
Decomposition products see section 10.

6. ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)
Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Spill Clean up
Sweep up to avoid slipping hazard.

7. HANDLING AND STORAGE

Handling
Protect against fire.

Storage
Store in cool, dry place away from direct light to maintain quality.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls
Ventilation:
Vapors and fumes liberated from compounds during hot cured processing should be exhausted from work areas to maintain the ambient workplace atmosphere below the limits listed in section 2.

Personal Protective Equipment
Respirators:
When temperature exceeds 200°C and ventilation is inadequate to maintain concentration below exposure limits, use a positive pressure air supplied respirator. Air purifying respirators may not provide adequate protection.

Protective Clothing:
If there is potential contact with hot/molten material, wear heat resistant clothing and footwear. Do not touch decomposed parts even when cool. Neoprene gloves recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Data:
- Melting Point: NA
- % Volatiles: NA
- Solubility in Water: insoluble
- Odor: With a mild characteristic odor
- Color: Black
- Appearance: Solid
- Specific Gravity: 1.25

10. STABILITY AND REACTIVITY

Chemical Stability
Stable at normal temperature and storage condition.

Conditions to avoid
Overheating

Incompatibility with other materials
No specific information is available, however strong oxidizers or reducing agents which generally not compatible with compounds.

Hazardous Decomposition Products
Fumes produced when heated to decomposition temperatures may contain carbon monoxide, carbon dioxide, hydrogen cyanide, oxides of nitrogen, and small amounts of aromatic and aliphatic hydrocarbons. Combustion products from rubber, like those of other natural and synthetic materials, must be considered toxic.
11. TOXICOLOGICAL INFORMATION

No information is available.

12. ECOLOGICAL INFORMATION

Aquatic toxicity: No information is available.

13. DISPOSAL CONSIDERATIONS

Waste disposal
Preferred options for disposal are (1) recycling, (2) incineration with energy recovery, and (3) landfill. The high fuel value of this product makes option 2 very desirable for material that cannot be recycled, but incinerator must be capable of scrubbing out acidic combustion products. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

14. TRANSPORTATION INFORMATION

Shipping information
DOT
Proper shipping name: not regulated
Hazard class: not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations
TSCA Inventory Status: This product and all components are listed on U.S. EPA Toxic Substances Control Act Inventory and in accordance with EC directives/GefStoffV.

16. OTHER INFORMATION

Hazard Rating System Classifications:

<table>
<thead>
<tr>
<th></th>
<th>NFPA</th>
<th>HMIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

National Fire Protection Association rating identifies hazards a fire emergency
Hazardous Materials Identification system rating applies to products as packaged

Key: 0=least; 1=slight; 2=moderate; 3=high; 4=extreme

Important Note:
This information is furnished without warranty, expressed or implied, as to accuracy or completeness. This information is obtained from various sources including the manufacturer and other third party sources. The safety data sheet only describes the products in aspect to their safety requirements.

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07-04-2017
FOR MORE INFORMATION

Consult: www.O-ring.info for more technical compound info or the address of your nearest ERIKS location.