



NBR/HNBR				 - Part of Diploma PLC
Material Safety Data Sheet	Compound	NBR/HNBR	Rev. 1	
	Designation	NBR/HNBR	03-2023	
<i>NOTE: This Material is a fully vulcanized rubber and will not release any products unless under fire.</i>				

1.	PRODUCT AND COMPANY IDENTIFICATION
PRODUCT NAME: SYNONYMS: PRODUCT CODES: MANUFACTURER: DIVISION: ADDRESS: EMERGENCY PHONE: CHEMICAL NAME: CHEMICAL FAMILY: PRODUCT USE: SECTION 1 NOTES:	NBR/HNBR Nitrile rubber/Hydrogenated Nitrile rubber M seals A/S Bybjergvej 13 , 3060 Espergærde +45 19130205 NBR/HNBR Nitrile-Butadiene Rubber O-rings, gaskets etc. This MSDS is based on a fully vulcanized rubber and will not release any substances during normal use.

2.	COMPOSITION/INFORMATION ON INGREDIENTS			
Ingredient: Acrylonitrile butadiene copolymer with curatives, Additives, fillers, oils and antidegradants added for specific material properties.	% weight: Percentage composition not available.	CAS No. Not allocated	Hazard class*: Not applicable	Risk phrase*: Not applicable
*Hazard class & Risk phrase These columns are only completed for ingredients which is classified as hazardous and is present in a sufficient concentration to make the overall substance hazardous.				

3.	HAZARDS IDENTIFICATION
	<p>These products when handled according to good working and hygienic practices are not dangerous to human health and the environment. However, degradation by chemicals, aging, heat or fire may produce a toxic and/or corrosive residue depending on the circumstances of degradation and other materials involved.</p>

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4.	FIRST AID MEASURES
Eyes:	No effects requiring first aid are expected during normal use. However, if small particles enter the eye, flush with sterile water. If irritation persists seek medical attention.
Skin:	No effects requiring first aid are expected during normal use. After contact with skin wash with soap and water.
INGESTION:	No effects requiring first aid are expected during normal use. If ingested do not induce vomiting and drink copious amount of water.
INHALATION:	No effects requiring first aid are expected during normal use. If exposed to fumes received from decomposition products, remove patient to fresh air. If breathing problems occur seek immediate medical attention.
Other:	In all cases of exposure to thermally degraded product, see immediate medical advice indicating that hydrogen cyanide is a decomposition product.


5.	FIRE-FIGHTING MEASURES
Extinguishing media:	Water spray, dry powder, carbon dioxide and foam
Fire and explosion hazard:	Once ignited nitrile will continue to burn with the evolution of dense smoke. Hazardous decomposition products resulting from overheating or combustion: Carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide and small amounts of aliphatic and aromatic hydrocarbons.
Special protection equipment:	Inhalation of fumes must be avoided. Fire fighters should wear a self-contained breathing apparatus which meets appropriate standards operated in positive pressure mode, and full turnout gear. Wear adequate skin protection to protect from thermal combustion products.

6.	ACCIDENTAL RELEASE MEASURES
No material specific actions are required. Collect the spilled material and reuse or dispose as in section 13.	

7.	SAFETY PRECAUTIONS HANDLING AND STORAGE
Handling.	No special precautions required.
Storage:	Store in cool and well ventilated area away from direct sunlight and sources of ignition. Store in original packaging showing codes and date of manufacture.

8.	EXPOSURE CONTROLS/PERSONAL PROTECTION
Engineering measures::	Not required under conditions of normal use
Respiratory protection:	Not required under conditions of normal use
Hand and skin protection:	Not required under conditions of normal use

The information given in this Safety Data Sheet is for safety purpose only.
 It is given in good faith and based on the best knowledge and experience of M Seals at the date of issuing.
 M Seals is not responsible for damages caused by the use of the product in applications for which it was not intended or for conditions of use outside its control.

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Eye protection: Not required under conditions of normal use
Wear safety glasses during machining.

Other protection: Not required under conditions of normal use

Work hygiene: Do not eat or smoke when handling.
Wash hands after handling.

EXPOSURE GUIDELINES: Not required under conditions of normal use

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid state rubber

Odour: Mild aromatic

Physical state: Solid

Solubility in water: Insoluble

Flash point: >200°C

Freezing point: N.A.

Vapor pressure (mmHg): N.A.

Specific gravity : 1 to 1,65 g/cm³

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions

Thermal decomposition: Above 200°C

Hazardous decomposition: Carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, small amounts of Aliphatic and aromatic hydrocarbons.


11. TOXICOLOGICAL INFORMATION

For a comprehensive description for the various toxicological (health) effects which may arise if the user comes into contact with the substance refer to section 3, "hazards identification"

12. ECOLOGICAL INFORMATION

The ecological effects of the products have not been established. The product is not expected to be substantially biodegradable.
The material contains no Chloroflourocarbons(CFC)

13. DISPOSAL CONSIDERATIONS

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Disposal at approved landfill site, or by high temperature incineration using licensed contractors.
Disposal must be in accordance with local authority and national regulations.

14. TRANSPORT INFORMATION

The product is not classified as dangerous under transport regulations.

15. REGULATORY INFORMATION

This product has been classified in accordance with the dangerous substances directive.

Classified as dangerous: No
Risk Phrases: Not applicable
Safety phrases: Not applicable
Symbols: None

16. OTHER INFORMATION

OTHER INFORMATION: None

DISCLAIMER: The information contained herein is based on our state of knowledge on the day of issue.
It is the duty of the enduser to ensure that this information is sufficient and complete with respect to the intended use.

Date: 07-03-2023

Sign: 