

MATERIAL SAFETY DATA SHEET HNBR / NBR



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 AMEC-EUROPE compounds
MSDS N° N0001
Chemical Name Acrylonitrile-butadiene copolymer
Company AMEC-EUROPE LTD.
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Nature (preparation)

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

Hazardous Ingredient					
Hazardous Ingredients	CAS#	Amount	Exposure Limits		EU 1907/2006 Candidate List
			OSHA PEL	ACGIH TVL	
Acrylonitrile	107-13-1	<10 ppm	2 ppm TWA 1 ppm AL 10 ppm Ceiling	2 ppm TWA A2, Skin	N/A
Butadiene	106-99-0	<0.2 ppm	1 ppm TWA 5 ppm STEL 0.5 ppm AL	2 ppm TWA A2	N/A

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.

4. FIRST AID MEASURES

Inhalation:

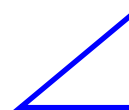
Remove the affected individual to fresh air. Consult a physician if symptoms persist.

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

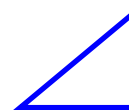
Stable at normal temperature and storage condition.

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:

	NFPA	HMIS	
Health	2	0	National Fire Protection Association rating identifies hazards a fire emergency.
Flammability:	1	1	Hazardous Materials Identification system rating applies to products as packaged.
Reactivity	0	0	

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.