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Material Safety Data Sheet

NBR 90

1. SUBSTANCE /PREPARATION AND COMPANY IDENTIFICATION

Product Name : NBR Compound / N9000AA
MSDS NO. : N0020
Chemical Name : Acrylonitrile-butadiene copolymer

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical nature (preparation)

Description: Butadiene-acrylonitrile copolymer (CAS number: 9003-18-3)

Hazardous Ingredient:

Hazardous Ingredients	CAS #	Amount	Exposure Limits	
			OSHA PEL	ACGIH TLV
Acrylonitrile	107-13-1	<10 ppm	2 ppm TWA 1 ppm AL 10 ppm Ceiling	2 ppm TWA A2, Skin
Butadiene	106-99-0	,<0.2 ppm	1 ppm TWA 5 ppm STEL 0.5 ppm AL	2 ppm TWA A2
4-vinyl Cyclohexene	100-40-3	<0.1 % est	No Established	0.1 ppm TWA, A3

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 to 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:

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 Exceed 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
Special Gravity:	1.33 – 1.43

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.

-END OF MSDS-