

Material Safety Data Sheet

Nysyn Elastomer

1. GENERAL INFORMATION

Chemical Name:	Acrylonitrile-Butadiene Rubber
CAS Number:	9003-18-3
CAS Name:	2-Propenenitrile polymer with 1,3-Butadiene
Applicable Grades:	33-5HM, 33-8HM, 33-5SR, 406P, 33-4 HM
Product Use:	General and special purpose, non-staining NBR for rubber articles and rubber modified articles
Prepared by:	Environmental and Safety Services
Telephone No.:	(504) 355-5655
Manufactured by:	DSM Copolymer, Inc.
Street Address:	5955 Scenic Highway, Baton Rouge, LA 70805
Mailing Address:	P. O. Box 2591, Baton Rouge, LA 70821
Date Prepared:	June 17, 1993
Supersedes:	CR 2259(R 9/90)

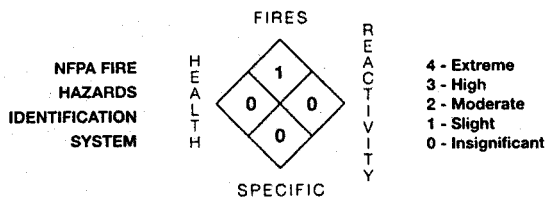
2. CHEMICAL COMPOSITION

Ingredient	CAS #	Wt. % Maximum	Hazard Classification
Acrylonitrile-Butadiene Rubber	9003-18-3	97	NH
Tall Oil Rosin	8052-10-6	2	NH
Bisphenolic Antioxidant	119-47-1	1.2	NH
Magnesium Carbonate(a)	546-93-0	1.5	Hazardous by OSHA (a)406P only

3. FIRE AND EXPLOSION HAZARD DATA

Flash Point Method:	NA
Auto Ignition Temperature:	At temperatures above 373 °C (700 °F)
Ignition Temperature:	300 °C (572 °F)
Combustible:	Yes, with the presence of an ignition source.
Upper/Lower Flammable Limits:	NE
Hazardous Combustion Products:	Carbon monoxide, carbon dioxide, products from incomplete combustion, nitrogen oxides, acrid fumes and toxic gases.
Extinguishing Media:	All fire extinguishing media permitted - water recommended; carbon dioxide not recommended.
Special Fire Fighting Procedure:	During emergency conditions exposure to thermal decomposition products may cause a health hazard. Use of NIOSH approved self contained breathing apparatus is recommended.
Upper/Lower Explosive Level:	NA
Sensitivity to Impact/Shock:	NA
Sensitivity to Static Discharge:	NA

MARKETED BY
HARWICK STANDARD
DISTRIBUTION CORPORATION
60 S. Seiberling Street • Akron, Ohio 44305



(Continued on reverse.)

Nysyn and Nysynblak are registered trademarks of DSM Copolymer, Inc.
CR2259 issued 9/93

DSM

DSM COPOLYMER

4. PHYSICAL DATA

Physical State:	Solid, bales
Appearance:	Amber
Odor:	Slight
Odor Threshold:	NE
Melting/Freezing Points:	NA
Specific Gravity:	0.96-1.01
Boiling Point:	NA
Vapor Pressure:	NA
Vapor Density:	NA
Volatiles (% by weight, @ 100 °C):	0.50 max.
Solubility in water at 20 °C:	Insoluble
Coefficient in Water/Oil Distribution:	NE
pH:	NA
Evaporation rate:	NA

5. SPECIAL REGULATORY HAZARD-HEALTH, SAFETY, AND FOOD

OSHA:	This product is not hazardous under Hazard Communication Standard 29 CFR Part 1910.1200. Magnesium Carbonate is considered a nuisance dust hazard by 29 CFR 1910.1000 Subpart Z-1.
TSCA:	Components of this product are listed under TSCA Chemical Substances Inventory.
FDA:	All grades can be used in complying with 21 CFR 177.2600, 'Rubber Articles Intended for Repeated Use'.
DOT:	United States: Designation and labeling not applicable as product is not defined or designated as a hazardous material by U.S. Department of Transportation under Title 49 of CFR. Canada: Not regulated under the Canadian Transportation of Dangerous Goods Regulations.
SARA Title III:	Section 302/304: Extremely Hazardous Substances - None Section 311: Hazardous Substances - Not Applicable Section 313: This product is not subject to reporting requirements (See 40 CFR 372).
WHMIS:	Components in this product are not listed in Canada's Workplace Hazardous Material Information System.
CEPA:	Components of this product are included in Canada's DSL.
EEC:	This product is not considered hazardous by the European Economic Community.

6. TOXICOLOGICAL AND HEALTH DATA

Specific Hazard:	No acute hazards or effects are known.
Medical Conditions	
Aggravated by Exposure:	Some individuals with specific sensitivities may exhibit eye, nose, throat or thermal irritation with prolonged exposure to processing fumes and vapors.
Routes of Exposure:	Eye Contact: Not a probable source of exposure. Particulates may scratch eye surface or cause irritation. Skin Contact: A single prolonged exposure is not likely to result in material being absorbed through the skin in a harmful amount. Repeated prolonged exposures may cause moderate skin irritation. Exposure to hot material may cause thermal burns. Ingestion: Not a probable source of exposure. Inhalation: Not a probable source of exposure under conditions of normal use. Hot fumes or vapors which may form during processing can cause irritation to the respiratory tract.
Toxicology Information:	LD50 = NE; LC50 = NA Reproductive Effects: None reported Teratogenicity: None reported Mutagenicity: None reported Carcinogenicity: None reported

7. PROTECTIVE AND PREVENTIVE MEASURES

Personal Protective Equipment:	Eye: Wear safety glasses. Skin: Wear clothing appropriate to prevent skin contact. Where contact may occur with hot material, wear thermal resistant gloves, arm protection, and a face shield. Respiratory: Not normally required at ambient temperatures. If processing in area where ventilation is inadequate, wear a NIOSH approved organic vapor respirator with mechanical filtration.
Handling Procedures and Equipment:	Avoid skin and eye contact, practice good personal hygiene. Avoid inhalation of fumes or vapors from hot rubbers, compounds and vulcanizates.

D S M C O P O L Y M E R

Engineering Controls:
Exposure Guidelines:

Local exhaust ventilation is recommended during all hot processing operations.

	PEL (OSHA)	TLV(ACGIH)
Magnesium Carbonate (respirable dust)	5 mg/m ³	5 mg/m ³

8. EMERGENCY AND FIRST AID PROCEDURES

Skin Contact: Wash with soap and water. If thermal irritation, flush affected area with cold water to dissipate heat, then cover with clean cotton sheeting or gauze and get prompt medical attention.

Eye Contact: Remove as for any foreign object. Flush with clean water for 15 minutes. Obtain medical attention if irritation persists.

Inhalation: If fumes or vapors are inhaled, move to fresh air, aid breathing. Obtain medical attention if irritation persists.

Ingestion: Unlikely to occur.

9. CHEMICAL REACTIVITY

Chemical Stability: Product is stable at ambient temperature and pressure.

Conditions to Avoid: Ignition source; product is combustible.

Incompatibility with other Materials: None known.

Hazardous Decomposition Products: Combustion products will be carbon monoxide, carbon dioxide, nitrogen oxides and products from incomplete combustion.

Hazardous Polymerization: Will not occur.

10. SPILLS, DISPOSAL, STORAGE GUIDELINES

Spill and Release Information: Repackage uncontaminated rubber. Reuse or dispose of as noted below if contaminated.

Disposal Information: Reuse if possible. Dispose in accordance with local, state and federal regulations and applicable environmental regulations. Material as supplied is not characterized as hazardous under RCRA.

Storage: Store at ambient temperatures, keep away from excessive heat and flame.

11. LABELS

OSHA: Not required

WHMIS: Not required

12. ADDITIONAL INFORMATION

Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Service

CEPA: Canadian Environmental Protection Act

CFR: Code of Federal Regulations

DOT: Department of Transportation

DSL: Domestic Substance List

EEC: European Economic Community

EPA: Environmental Protection Agency

FDA: Food and Drug Administration (U.S.)

IARC: International Agency for Research on Cancer

LC50: The concentration in air that causes death in 50% of the animals exposed

LD50: The dose that causes death in 50% of the animals exposed

mg/m³: Milligrams (mg) of substance per cubic meter (m³) of air; method of expressing the concentration of a substance in air

NA: Not applicable

NE: Not established

NH: Not hazardous

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limits

RCRA: Resource and Conservation Recovery Act

SARA: Superfund Amendments and Reauthorization Act

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act

WHMIS: Workplace Hazardous Material Information System

DSM Elastomers

North and South America

DSM Copolymer, Inc.
P.O. Box 2591
Baton Rouge, LA, USA 70821-2591

Tel. (504) 355-5655
Toll free: (800) 535-9960
Fax: (504) 267-3631

Customer Applications Development Center
Tech-Line: (800) 824-0357
Fax: (504) 267-3630

Europe

DSM Elastomers Europe B.V.
The Netherlands (Sittard)
Tel. +31 (0) 46 77 36 67

Japan

DSM Idemitsu Co., Ltd.
Japan (Tokyo)
Tel. (81) 3-435-7110

Far East

DSM Elastomers Asia Pacific Pte. Ltd.
Singapore
Tel. (65) 299-6080

Notice: Although the information contained in this MSDS is believed to be correct as of the date hereof, DSM Copolymer makes no representations as to the completeness or accuracy thereof. Those who utilize the product described herein are responsible for determining (a) the suitability of the product for the intended use and (b) the appropriate manner of processing the product to ensure safety and quality. In no event will DSM Copolymer be responsible for damages of any nature resulting from the use of or reliance upon the information contained herein.

© DSM Copolymer, Inc.
Printed in the USA
Edition 09/93