



MATERIAL SAFETY DATA SHEET

NYLOBRADE®, P10101-80 PVC

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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MSDS No.: 016205220

Current Version 2/25/02

Generic Description: Plasticized Polyvinyl Chloride (PVC)
Physical Form: Solid, hose
Color: Clear
Odor: Negligible
U.S. DOT: Not Regulated

Note: U.S. DOT = United States Department of Transportation

SECTION 2 - OSHA HAZARDOUS COMPONENTS

<u>CAS NUMBER</u>	<u>Wt%</u>	<u>COMPONENT</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
117817	29	Dop/Dioctylphthlate (Di(2-ethylhexyl) phthalaic	5MG/M ³	5MG/M ³

This product is a solid material. All components are physically bound into the matrix during the manufacturing process and are not expected to create an exposure to individual components when the material is handled at ambient temperatures. Melting of this material can generate harmful off-gasses. See Section 10 for more information.

SECTION 3 - EFFECTS OF OVEREXPOSURE

Acute Effects

Evolution of HCL if degradation occurs due to excessive exposure at temperatures over 400° F, otherwise no known health hazards during normal processing, fabrication, or use.

Health Hazards

Skin: Not toxic - does not irritate. Molten or hot polymer will cause thermal burns.

Eye: May cause mechanical irritation.

Inhalation: Avoid breathing dust and processing fumes.

Oral: Not toxic.

SECTION 4 - FIRST AID MEASURES

If irritation or other symptoms as noted occurs or persists from any route of exposure, remove the affected individual from the area. Call a physician / get medical attention.

Eye Contact: Flush eyes thoroughly with plenty of water for several minutes. DO NOT remove contact lenses, if worn. Immediately consult a physician, preferably an ophthalmologist.

Skin Contact: The material is not likely to be hazardous by skin contact, however, cleansing the skin after contact is advisable. If molten polymer gets on skin, remove clothing and/or any jewelry in the immediate area, remove any excess material, and cool rapidly with cold water. Leave blisters intact. Do not use ice. Cover the affected area and keep moistened with cool water. Obtain medical treatment.



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- Inhalation:** No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. If exposed to fumes from overheating or combustion, move to fresh air. Consult a physician if necessary or if symptoms persist.
- Ingestion:** No specific intervention is indicated as the material is not likely to be hazardous by ingestion. Consult a physician if necessary.

SECTION 5 - FIRE FIGHTING MEASURES

- Autoignition Temperature:** N/A
- Extinguishing Media:** Water
- Fire Fighting Instructions:** Avoid directing a solid stream of water into burning molten material as this may cause spattering and spread the fire. NOTE: Wear self-contained breathing apparatus (SCBA). Wear full protective equipment.
- Fire & Explosion Hazards:** Avoid dispersion of dust into the air to reduce potential for dust ignition or explosions. HCL is liberated in combustion.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Containment / Clean-up:** Vacuum or sweep up carefully and place into container for reuse or disposal. Do not sweep or flush product into sewers or waterways.

SECTION 7 - HANDLING AND STORAGE

- Precautions to be Taken:** Being that it is in a solid form, Nylobrade PVC should not pose any hazards. It is stable to 400° F. At temperatures in excess of 400° F, hydrogen chloride (HCL), carbon monoxide (CO), and carbon dioxide (CO₂) will be liberated. Avoid breathing dust or molten polymer fumes. Store away from open flame in a well ventilated area.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Generally Applicable Control Measures & Procedures

- Ventilation:** Provide general or local exhaust ventilation to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.
- Other:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after working with this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Avoid contamination of cigarettes or tobacco with polymer dust.

Personal Protective Equipment

- Eye:** Safety glasses are recommended if cutting or melting material. Follow OSHA eye and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of or in conjunction with contact lenses.
- Skin:** No specific protective clothing is needed under normal handling circumstances. Wear protective gloves and a long sleeve shirt is recommended when handling hot material.
- Inhalation:** No breathing protection is needed under normal handling circumstances. However, if a respirator is used, seek professional advice prior to selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select a respirator based on its



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suitability to provide adequate worker protection for given working conditions, levels of airborne contaminant, and presence of adequate oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fitness testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient sanitary storage.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical form:	Solid
Appearance/Color:	Clear with white braiding; single blue tracer line
Odor:	None to very mild
Solubility (in water):	Insoluble
pH Value:	N/A
Boiling Point:	N/A
Vapor Pressure (mm Hg):	N/A
Melting Point:	Approx. 240° F
Specific Gravity:	1.24
Evaporation Rate:	Non Volatile
Vapor Density (Air=1):	N/A
Partition Coefficient:	N/A
% Volatile Weight:	Nil
VOC:	N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability:	This product is stable at normal temperatures and storage conditions.
Conditions to avoid:	Temperatures over 400° F.
Incompatibility:	None.
Hazardous Decomposition Products:	Thermal decomposition products will include hydrogen chloride (HCL), carbon monoxide (CO), and carbon dioxide (CO ₂). Acute overexposure to decomposition products may result in headache, nausea, and/or irritation of the eyes, skin, and/or respiratory tract. Wear SCBA equipment if exposed to thermal decomposition.
Hazardous Polymerization:	Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Liberation of HCL if degradation occurs due to excessive exposure to temperatures exceeding 400° F, otherwise no known health hazards during normal processing or fabrication.

NTP:	No
IARC Monographs:	No
OSHA Regulated:	No

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity / Environmental Fate: None known or expected from this product as furnished.

SECTION 13 - DISPOSAL INFORMATION



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Preferred options for disposal are a.) recycling, and b.) landfill. Treatment, storage, transportation, and disposal must be in accordance with federal, state, and local regulations.

SECTION 14 - TRANSPORTATION INFORMATION

DOT

Proper Shipping Name: N/A

Hazard Class: Not Regulated for domestic and international transportation.

SECTION 15 - REGULATORY INFORMATION

General Statement

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

Dop/Dioctylphthlate

State Right-to-Know Laws

While the product or the material used to manufacture was not specifically analyzed for substances on various state hazardous substances lists, to the best of our knowledge the products on this MSDS contain no such substances.

SECTION 16 - OTHER INFORMATION

Legend:

ACGIH:	American Conference of Governmental Industrial Hygienists
A1:	Confirmed human carcinogen
A2:	Suspected human carcinogen
A3:	Animal carcinogen
CAS No.:	Chemical Abstract Service Registry Number
IARC:	International Agency for Research on Cancer
Group 1:	Carcinogenic to humans
Group 2A:	Probably carcinogenic to humans
Group 2B:	Possibly carcinogenic to humans
Group 3:	Unclassifiable as a carcinogen to humans
MSHA:	Mine Safety and Health Administration
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
N/A:	Not Applicable
N/E:	None Established
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit (8-hour TWA, 29CFR1910.1000)
PNOC:	Particulates not Otherwise Classified
RTK:	Right to Know
Skin:	Calls attention to the skin as an additional significant route of absorption of the listed chemical
STEL:	Short Term Exposure Limit (15 minute Time Weighted Average)
TLV:	Threshold Limit Value
TWA:	Time Weighted Average for amount of chemical substance in the ambient workplace air for a normal 8-hour workday, 40-hour workweek, to which nearly all workers may be repeatedly exposed without adverse effect. American Conference of Governmental Industrial Hygienists, 1992/1993 Edition.
C:	Ceiling limit



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S: Skin notation
WEEL: Workplace Environmental Exposure Level
WHMIS: Canadian Workplace Hazardous Materials Information System

Users Responsibility / Disclaimer of Liability

This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

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