

MATERIAL SAFETY DATA SHEET

For chemicals, coatings and related materials

DATE PREPARED:  
3-27-87

SUPERCEDES:  
7/86

Manufacturer  
 NAME : Sonneborn Building Products  
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 ADDRESS: Minneapolis, MN  
 ADDRESS:  
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Section I - Product

NUMBER: 31-957  
 NAME : SONOLASTIC NP-1 Urethane Sealant (3550)  
 CLASS : Sealant  
 H M I S Hazard Codes  
 Health: 1 Slight  
 Flammability: 1 Slight  
 Reactivity: 0 Minimal  
 Personal Protective Equipment: B

Section II - Hazardous Ingredients

Ingredient Material Description	Percent by weight	C. A. S. Registry No.	LEL	Vapor Pressure mm Hg @ 20 C
Nonylphenoxypolyethoxyethanol	1.5	68412-54-4	N/A	N/A
Glycidoxypropyltrimethoxysilane	0.9	2530-83-8	N/A	0.9
2,4-Toluene DIsocyanate	<0.1	584-84-9	N/A	0.02
Dibutyltin Dilaurate	0.31	77-58-7	N/A	0.0
Chlorinated Paraffin	2.78	68920-70-7	N/A	N/A
Naphthene/Paraffin Solvent	7.5	64742-88-7	1	5.0
Hydrous magnesium silicate	3.92	14807-96-6	N/A	N/A

Section III - Physical Data

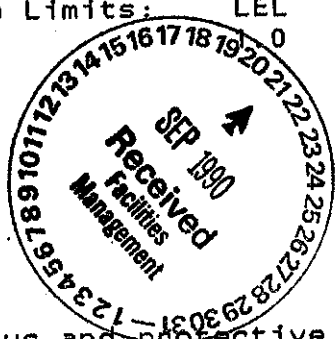
Boiling Range: 250. - 450. deg F  
 Vapor Pressure: 4.5 mm @ 20 deg C  
 Specific Gravity: 1.14  
 Evaporation Rate: Slower  
 (relative to n-butyl acetate)  
 Freezing Point: N/A deg F  
 Vapor Density: Heavier than air  
 H2O Soluble: Slight (0.1-1.0%)  
 % Volatile by Volume: 12.14 %

Appearance and Odor: Smooth viscous liquid with moderate odor

Section IV - Fire and Explosion Hazard Data

Flash point: 144.0 deg F (Method Used) Tag  
 Explosive Limits: LEL 0 UEL (%V in air) 7.0

FLAMMABILITY CLASSIFICATION  
 OSHA: Combustible Liquid - Class IIIA  
 DOT : Combustible Liquid  
 EXTINGUISHING MEDIA:  
 Foam, CO2, Dry Chemical



SPECIAL FIRE FIGHTING PROCEDURES:

Wear self-contained breathing apparatus and protective clothing. Use water to cool exposed containers. Water stream directed into fire may cause frothing with subsequent spread of fire.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Irritating and/or toxic gases or fumes may be generated by thermal decomposition or combustion. Closed containers may rupture or explode (due to pressure build-up) when exposed to extreme heat.

Vapor is heavier than air, and may travel along the ground to be reignited at locations distant from the source; flashback of flame may occur.

Empty containers may contain explosive vapors or dangerous residues. DO NOT cut, puncture, or weld on or near container.

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 ===== Section V - Toxicological Information =====  
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----- Ingredient ----- Material Description	PEL    mg/m3	TLV (twa)    mg/m3  ppm	LD50(mg/kg)		LC50(ppm)	
			(rat)     ORAL	(rbt)     DERMAL	(rat)     INHAL	
Nonylphenoxypolyethoxyethanol	N/A	N/A	N/A	N/A	N/A	N/A
Glycidoxypropyltrimethoxysilane	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Toluene Diisocyanate	0.02ppm	N/A	0.005	5800.0	N/A	66.0
Dibutyltin Dilaurate	0.1	0.1	N/A	3954.0	N/A	N/A
Chlorinated Paraffin	N/A	N/A	N/A	N/A	N/A	N/A
Naphthene/Paraffin Solvent	N/A	N/A	100.0	N/A	N/A	N/A
Hydrous magnesium silicate	N/A	2.0	N/A	N/A	N/A	N/A

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 ===== Section VI - Health Hazard Data =====  
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EFFECTS OF OVEREXPOSURE: THRESHOLD LIMIT VALUES: See Section V

**ACUTE HAZARDS**

- EYES:** Severe irritant. May cause permanent corneal injury.
- SKIN:** Moderate irritant. May cause dermatitis and allergic responses. Repeated or prolonged overexposure may cause sensitization. May be absorbed in harmful amounts.
- INHALATION:** Respiratory irritant and intoxicant. Overexposure shown by headache, dizziness and confusion to coma. Material aspirated into lungs may cause chemical pneumonitis.
- INGESTION:** May cause irritation/burns of mouth, throat, and stomach. Symptoms include nausea, abdominal pain and possible collapse. Toxic.

\*\*\*Preexisting pulmonary and dermatological disorders may be aggravated by exposure to hazardous components.

**EMERGENCY AND FIRST AID PROCEDURES:**

- EYES:** Flush with plenty of water at least 15 minutes. Obtain immediate medical attention.
- SKIN:** Remove contaminated clothing. Wash affected area(s) thoroughly with soap and water. Consult a physician.
- INHALATION:** Remove to fresh air. If breathing is difficult, give oxygen. Administer artificial respiration if not breathing. Obtain medical attention.
- INGESTION:** DO NOT INDUCE VOMITTING. Give water or milk if victim is conscious and not drowsy. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into the lungs. Obtain immediate medical attention.

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Section VII - Reactivity Data  
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STABILITY: Stable

STABILITY CONDITIONS TO AVOID:

Sources of ignition.  
Long-term exposure to elevated temperatures.  
Contamination with moisture.

INCOMPATIBILITY (MATERIALS TO AVOID CONTACT WITH):

Strong bases or oxidants. Strong Lewis or mineral acids.  
Water, alcohols  
Amine hardeners in large masses or under uncontrolled conditions.

HAZARDOUS DECOMPOSITION PRODUCTS:

Acrid smoke. Oxides of carbon.  
Toxic nitrogenous oxides.  
Aldehydes and acids from incomplete combustion.  
Traces of hydrogen cyanide in an oxygen-deficient environment.

HAZARDOUS POLYMERIZATION: Will not occur  
POLYMERIZATION CONDITIONS TO AVOID:

Amine hardeners under uncontrolled conditions.  
Elevated temperatures.  
Contamination with water.

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Section VIII - Spill or Leak Procedures  
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STEPS FOR MATERIAL SPILLAGE:

Ventilate area. Wear appropriate protective equipment during cleanup.  
Eliminate sources of ignition. Shut off source of leak if safe to do  
so. Dike or contain spill. Absorb with inert material. Sweep or  
shovel into containers with lids. Cover loosely and store in a well-  
ventilated area until disposal. Wash spill area with soap and water.  
Prevent washings from entering waterways.

WASTE DISPOSAL METHODS:

Review all local, state, and federal regulations concerning health and  
pollution for appropriate disposal procedures.

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Section IX - Special Protection Information  
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RESPIRATORY PROTECTION:

If the TLV is exceeded, if use is performed in a poorly ventilated  
confined space or area with limited ventilation, use NIOSH-approved  
respirator in accordance with 29 CFR 1910.134.

Use self-contained breathing apparatus when burning out cured compound

VENTILATION:

Local exhaust as needed to control vapor/dust levels to below recommended limits.

PROTECTIVE GLOVES:

Impervious rubber.

EYE PROTECTION:

Chemical safety goggles

OTHER PROTECTIVE EQUIPMENT:

Accessible eye wash and safety shower.  
Clean protective clothing  
Rubber apron

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Section X - Special Precautions  
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HANDLING AND STORAGE PRECAUTIONS:

FOR PROFESSIONAL USE ONLY  
DO NOT TAKE INTERNALLY  
AVOID CONTACT WITH EYES, SKIN, AND CLOTHING  
AVOID BREATHING VAPOR/DUST/MIST  
WASH THOROUGHLY AFTER HANDLING  
TIGHTLY RESEAL ALL PARTIALLY USED CONTAINERS  
USE ONLY WITH ADEQUATE VENTILATION  
STORE AWAY FROM SOURCES OF IGNITION

KEEP OUT OF REACH OF CHILDREN

\*Toluene Diisocyanate has been listed as a carcinogen by the National Toxicology Program, based upon the results of a chronic rat feeding study. The International Agency for Research on Cancer examined the same study and concluded that the evidence was inadequate to classify toluene diisocyanate as a human carcinogen. Recent studies indicate that overexposure may be associated with chronic lung impairment. Pulmonary edema may occur after a serious vapor exposure.

OTHER PRECAUTIONS:

\*\*\*N/A = Information or data Not Available\*\*\*  
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D.O.T. Hazard Class: Combustible Liquid  
D.O.T. Shipping Name: Combustible Liquid, N.O.S.  
(Naphthene Solvent)

UN/NA Number: NA 1999  
EPA RCRA Class: Not regulated  
EPA RCRA Number: None  
ON EPA TSCA Inventory: Yes

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