

MATERIAL SAFETY DATA SHEET

Anchor-Seal, Inc.

Section 1. Chemical Product and Company Identification	
Product name/ AB Debonder for CA Trade Name	<i>IN CASE OF EMERGENCY:</i> INFOTRAC: 1-800-535-5053 INFORMATION: 1-800-669-5217
Manufacturer Anchor-Seal, Inc. 54 Great Republic Drive Gloucester, MA 01930	
Date of Preparation: 5/11/11	Replaces: 10/7/09
Preparer's Name Peter E. Spinney	

Section 2. Composition, Information on Ingredients			
<i>Component Information</i>		<i>Exposure Limits</i>	
Chemical Name: Nitromethane	CAS# 75-52-5	TLV (ppm) ACGIH 20 ppm	OSHA PEL, TWA 100 ppm

TLV™-Threshold Limit Value exposure (8 hour, time weighted average unless otherwise noted) established by the American Conference of Governmental Industrial Hygienists. PEL - OSHA Permissible Exposure Limit. N/E indicates that no exposure limit has been established.

Section 3. Hazards Identification	
WARNING! Flammable liquid and vapor. Harmful if swallowed, inhaled or absorbed through the skin. Causes irritation to skin, eyes and respiratory tract. Forms shock sensitive mixtures with certain other materials. Affects central nervous system. Compounds formed with strong alkalis are explosive when dry.	
Primary Routes of Exposure: X Skin contact X Eye Contact X Inhalation Ingestion	
Routes of Exposure	Symptoms
Inhalation	Respiratory irritation, nasal discharge and difficulty breathing may occur after exposure to aerosol or high vapor concentrations..
Skin	Skin absorption hazard. May cause irritation, redness and pain.
Eyes	Moderate to severe eye irritant with possible corneal damage.
Ingestion	Ingestion may cause discomfort and irritation of the gastrointestinal tract, dizziness and shortness of breath.
Chronic	Repeated or prolonged skin exposure may cause dermatitis. Prolonged inhalation may cause liver damage.
Carcinogenicity	OSHA: Not listed NTP: Anticipated IARC: 2B

Section 4. First Aid Measures	
Eyes	Immediately flush the eyes with large amounts of low-pressure tepid water for at least 15 minutes, occasionally lifting the lower and upper lids. If irritation persists, seek medical attention.
Skin	Immediately wash the contaminated skin with soap and water. If this chemical penetrates the clothing, immediately remove the clothing. wash the skin with soap and water.
Inhalation	If overcome by exposure, immediately move the victim to fresh air. Administer oxygen or artificial respiration as needed. Prompt action is essential. Obtain emergency medical attention if symptoms persist.
Ingestion	Induce vomiting immediately as directed by medical personnel. Obtain emergency medical attention. Never give anything by mouth to an unconscious person.

Section 5. Fire Fighting Measures	
Extinguishing Media:	

MATERIAL SAFETY DATA SHEET

Anchor-Seal, Inc.

Water, Carbon Dioxide, Sand, Dry Chemical and Foam			
Flash Point	95F (35C) closed cup	LEL: N/D	UEL: N/D
Flammability Classification NFPA	Class 3 Flammable Liquid		
Extinguishing Media	Carbon dioxide, water spray, dry chemical, foam.		
Unusual Fire and Explosions Hazards	<p>When heated above the flash point, releases flammable vapors. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air.</p> <p>Fire fighters should wear positive-pressure self-contained breathing apparatus (SCBA) and protective clothing.</p> <p>Cool closed containers with WATER SPRAY to avoid rupture of containers.</p> <p>Heat from fire can generate vapor and decomposition products that may cause a health hazard.</p>		

Section 6. Accidental Release Measures

FLAMMABLE LIQUID. ISOLATE AREA OF THE SPILL! Eliminate all ignition sources. Soak up small spills with inert solids such as vermiculite, clay or sand. Shovel into suitable disposal container. Persons not wearing protective equipment should be excluded from the area of spill until cleanup has been completed.

Section 7. Handling & Storage

Store material in a clean, ventilated area at 32-80F. Clean up spills at once. Keep container tightly closed when not in use. Avoid skin and eye contact. Avoid breathing vapors if generated. Always wear protective equipment. Wash hands and other exposed areas thoroughly after handling. **Store away from heat, sparks, open flames** and strong oxidizing agents.

Section 8. Exposure Controls/Personal Exposure

Eye Protection	Avoid splashing. Wear chemical-resistant safety goggles or face shield.
Skin Protection	Chemical resistant synthetic rubber (neoprene, butyl) gloves and other protective clothing are recommended to prevent repeated or prolonged skin contact. Clean equipment thoroughly after each use.
Respiratory Protection	OSHA PEL 500 ppm TWA. If personal exposure cannot be controlled by area ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH 29 CFR 1910.134 or ANSI Z88.2.
Ventilation	General area ventilation is acceptable. Local exhaust is recommended for confined areas. See 29 CFR 1910.146
Other Precautions	Flammable, keep away from sparks and flames. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Section 9. Physical and Chemical Properties

Percent Volatile Content by Volume (PBV) or Weight (PBW)	100%	Specific Gravity (gm/cc)	1.14
VOC Content (less water) Note 1	N/E	Weight per Gallon	9 lb.
Boiling Point	100C	Evaporation Rate butyl acetate=1	1.39
Vapor Pressure	27.8 mm Hg @ 20C	Solubility in Water	Partial
Vapor Density (Air=1)	2.1	Appearance and Odor	Thin liquid, fruity odor

Section 10. Stability and Reactivity

Stability	Stable
Conditions to Avoid	Excessive heat, sparks, open flames and incompatibles.
Incompatibility	Amines, acids, bases, oxidizers, metal oxides, aluminum chloride plus organic matter, hexamethylbenzene, hydrocarbons, calcium hypochlorite, potassium hydroxide, sodium hydroxide, calcium hydroxide. Slowly corrodes steel and copper when wet. In the presence of water

MATERIAL SAFETY DATA SHEET

Anchor-Seal, Inc.

	Nitromethane can react with organic bases to form salts that are explosive when dry.
Hazardous Decomposition Products	Burning may produce carbon monoxide and nitrogen oxides.
Hazardous Polymerization	None

Section 11. Toxicological Information Acute Toxicity (see Section 3. for Exposure Symptoms)			
Chemical Identity	ORAL LD 50	DERMAL LD 50	Inhalation LC 50
Nitromethane	940 mg/kg (rat)	N/A	N/A

Some evidence of carcinogenicity was noted in NTP tests. (Mammary tumors in female rats).

Section 12. Ecological Information
When released into soil the product may leach into ground water. If released into soil or water it is expected to quickly evaporate. If released into water this material is not expected to biodegrade.

Section 13 Disposal Considerations
RCRA: This product, if disposed of as shipped, should be considered a hazardous waste as specified in 40 CFR 261. Dispose of in accordance with all applicable federal, state and local regulations.

Section 14 Transportation Information	
This product if offered for shipment is regulated by US DOT 49 CFR Parts 171 - 180: Regulation of Hazardous Materials Transportation in Commerce.	
Proper Shipping Name	Nitromethane
Classification	3
Identification	UN1261
Packing Group	11
Label	Flammable

Section 15. Regulatory Information				
<i>Regulations Governing Product:</i>				
Inventory Status: United States (TSCA) - All ingredients are on the inventory or are exempt from listing.				
SARA TITLE III				
EPCRA 311/312 Tier II Chemical Inventory Reporting: Immediate (acute)				
	Health	Flammability	Chemical Reactivity	
NFPA Rating	2	3	4	
<i>Regulations Governing Ingredients</i>				
<i>Chemical Name</i>	<i>CAS #/ Category#</i>	<i>CERCLA RQ</i>	<i>EPCRA 313 RQ</i>	<i>EPCRA 302 RQ EHS</i>

Section 16 Other Information
<u>REFERENCES</u>
CRC Press: Handbook of Chemical and Physical Constants by David R. Lide
Merck & Company: The Merck Index
Sigma-Aldrich Company: Aldrich Handbook of Fine Chemicals
Dictionary of Toxicology by Robert Lewis
US Department of Transportation, Research and Special Programs Administration: Hazardous Materials Table

The information contained herein is given in good faith but no guarantee or warranty of any kind, expressed or implied, is made with respect to the information above. Metzger-McGuire Co. expressly disclaims any liability, which may be incurred in using the information contained herein.