

**GRAYLING INDUSTRIES, INC.**  
**MATERIAL SAFETY DATA SHEET - LOW ODOR MASTIC REMOVER**

**I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: **LOW ODOR MASTIC REMOVER**  
General or Generic ID: SOLVENT BLEND  
Item Number: 19105  
HFR Rating: 2-2-0

**MANUFACTURER: EMERGENCY PHONE NUMBER:**  
Grayling Industries, Inc. **(800) 535-5053 (Infotrac)**  
1008 Branch Drive  
Alpharetta, GA 30004 **INFORMATION: (800) 635-1551**  
Date Prepared: July 10, 2006  
Date Superseded: April 27, 2006

**II. COMPOSITION/INFORMATION ON INGREDIENTS**

**CAS Number**

Medium Aliphatic Solvent Distillates 64742-88-7  
2-Butoxyethanol 111-76-2  
Heavy Aromatic Solvent Naphtha 64742-94-5  
NonYlphenol Ethoxylate 9016-45-9

**III. HAZARDS IDENTIFICATION**

**RISK STATEMENTS:**

**R 65** Harmful: may cause lung damage if swallowed  
**R36 / 37/ 38** Irritating to eyes, respiratory system and skin.  
**R20 / 65** Harmful by inhalation, may cause lung damage if swallowed.

**SAFETY STATEMENTS:**

**S24 / 25** Avoid contact with skin and eyes.

**IV. FIRST AID MEASURES**

**Eye Contact:**

For Eyes, flush with plenty of water for 15 minutes and get medical attention.

**Skin Contact:**

In case of contact with skin immediately remove contaminated clothing. Wash skin thoroughly with soap and water. Wash contaminated clothing before reuse.

**Inhalation:**

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen.  
If breathing has stopped give artificial respiration. **CALL A PHYSICIAN IMMEDIATELY!**

**Swallowing:**

If swallowed, **CALL A PHYSICIAN IMMEDIATELY! DO NOT INDUCE VOMITING!**  
Have patient lie down and keep warm. Vomiting may lead to pneumonitis, which may be fatal.

**V. FIRE FIGHTING MEASURES**

**Extinguishing Media:**

NFPA Class B extinguishers (Carbon Dioxide or foam) for class IIIA liquid fires.

**Special Fire Fighting Procedures:**

Water spray may be ineffective on fire, but can protect fire-fighters and cool closed containers.

Use fog nozzles if water is used.

Do Not Enter Confined Fire-Space without full bunker gear.

(Helmet with face shield, bunker coats, gloves, and rubber boots).

Use NIOSH approved positive-pressure self-contained breathing apparatus.

**Unusual Explosion and Fire Procedures:****COMBUSTIBLE !**

Keep Container tightly closed.  
Isolate from oxidizers, Heat, and open flame.  
Closed containers may explode if exposed to extreme heat.  
Applying to hot surfaces requires special precautions.  
Empty container very Hazardous! Continue all label precautions!

**VI. ACCIDENTAL RELEASE MEASURES****Containment Techniques:**

Keep unprotected personnel away. Stop spill at source. Dike area and contain.

**Clean-Up Procedures:**

Clean up remainder with absorbent material. Mop up and dispose of material.

**VII. HANDLING AND STORAGE****Handling:**

Isolate from oxidizers, heat, and open flame.  
Use only with adequate ventilation. Avoid breathing of vapor or spray mist.  
Do not get in eyes, on skin, or on clothing.  
Wear OSHA Standard Goggles or face shield. Consult Safety Equipment Supplier.  
Wear gloves, apron, and footwear impervious to this material. Wash clothing before reuse.  
Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, braze, or weld.  
Empty container very hazardous! Continue all label precautions!

**Storage:**

Store large amounts in structures made for OSHA Class IIIA liquids.  
Keep container tightly closed and upright when not in use to prevent leakage.

**VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION****Respiratory Exposure Controls**

A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

**Ventilation:**

Local Exhaust: Necessary  
Mechanical (General): Acceptable  
Special: None  
Other: None

**Personal Protection**

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.  
Wear gloves, apron, and footwear impervious to this material.  
Wash clothing before reuse.

**Work and Hygienic Practices**

Provide readily accessible eye wash stations and safety showers.  
Wash at end of each work shift and before eating, smoking, or using the toilet.  
Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles,  
Launder or discard contaminated clothing.

**IX. PHYSICAL DATA**

**Appearance:** Liquid, Water-White

**Odor:** Aromatic

**Boiling Point:** 174° 190° 196°\* C / 346° 375° 385°\* F (\*=End Point)

**Auto Ignition Temperature:** 260° C / 500° F (Lowest Component)

**Lower Flammable Limit In Air (% by vol):** 0.9

**Flash Point (Test Method):** 60° C / 141° F (TCC) (Lowest Component)

**Flammability Classification:** Class IIIA

**Gravity @ 68/68° F / 20/20° C:**

**API:** 43.9

**Specific Gravity (Water=1) :** 0.807

**Pounds/Gallon:** 6.719

**VOC'S (>0.44 lbs/Sq.Inch)** 0.0 Vol. % / 0.0 g/L / 0.000 Lbs/Gal

**TOTAL VOC's (TVOC):** 99.0 Vol. % / 796.1 g/L / 6.631 Lbs/Gal

**Nonexempt VOC's (CVOC):** 99.0 Vol. % / 796.1 g/L / 6.631 Lbs/Gal

**Hazardous Air Pollutants (HAPS):** 0.0 Wt. %/ 0.0 g/L / 0.000 Lbs/Gal

**Vapor Pressure (mm of Hg @20° C):** 0.5

**Nonexempt VOC Partial Pressure (mm of Hg @ 20° C):** 0.5

**Vapor Density (air=1):** 5.0

**Water Absorption:** Appreciable

**Refractive Index:** 1.438

**Mixed Aniline Point (Acid Insol):** 63° C / 147° F

#### X. STABILITY AND REACTIVITY

**Stability:**

Stable under normal conditions.

**Conditions to Avoid:**

Isolate from oxidizers, heat, and open flame.

**Materials to Avoid:**

Isolate from strong oxidizers such as permanganates, chromates, and peroxides.

**Hazardous Decomposition Products:**

Carbon Monoxide, Carbon Dioxide from burning.

**Hazardous Polymerization:**

Will not occur.

#### XI. TOXICOLOGICAL INFORMATION

**MATERIAL / CAS# / TWA (OSHA) / TLV (ACGIH) / HAP**

Medium Aliphatic Solvent Naphtha / \*64742-88-7 / 5 mg/m3 / 5 mg/m3 / NO

2-Butoxyethanol / 111-76-2 / 50 ppm S / 20 ppm S / NO

Heavy Aromatic Solvent Naphtha / \*64742-94-5 / 100 ppm / 5 mp/m3 / NO

Nonylphenol Ethoxylate / 9016-45-9 / None Known / None Known / NO

This product contains no EPQ Hazardous Air pollutants (HAP) in amounts > 0.1%.

Using manufacturers' data, based on EPA Method 311, the following EPA Hazardous Air Pollutants may be present in trace amounts (less than 0.1%): Cumene, Naphthalene

**MATERIAL / CAS# / CEILING / STEL (OSHA/ACGIH)**

- / - / None Known / None Known

#### ACUTE HAZARDS

**EYE & SKIN CONTACT:**

Primary irritation to skin, defatting, dermatitis.

Absorption thru skin increases exposure.

Primary irritation to eyes, redness, tearing, blurred vision.

Liquid can cause eye irritation. Wash thoroughly after handling.

**INHALATION:**

Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful.

Breathing vapor can cause irritation.

Acute overexposure can cause damage to kidneys, blood, nerves, liver & lungs.

**SWALLOWING:**

Harmful or fatal if swallowed.

Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

#### SUBCHRONIC HAZARDS / CONDITIONS AGGREGATED

**CONDITIONS AGGREGATED:**

Chronic overexposure can cause damage to kidneys, blood, nerves, liver & lungs.  
Persons with severe skin, liver, or kidney problems should avoid use.

**CHRONIC HAZARDS**

**CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:**

Lung, liver tumors have been reported in laboratory mice.  
Leukemia has been reported in humans from Benzene.  
This product contains less than 1 ppm of Benzene.  
Not considered hazardous in such low concentrations.  
Absorption thru skin may be harmful.

**XII. ECOLOGICAL INFORMATION**

**MAMMALIAN INFORMATION:**

**MATERIAL / CAS # / LOWEST KNOWN LETHAL DOSE DATA**

Ethylene Glycol Butyl Ether / 111-76-2 / LOWEST KNOWN LD50 (ORAL) 320.0 mg/kg (Rabbits)  
Ethylene Glycol Butyl Ether / 111-76-2 / LOWEST KNOWN LD50 (VAPORS) 700 ppm (Mice)  
Ethylene Glycol Butyl Ether / 111-76-2 / LOWEST KNOWN LD50 (SKIN) 440.0 mg/kg (Rabbits)

**AQUATIC ANIMAL INFORMATION:**

The most sensitive known aquatic group to any component of this product is:  
Tidewater Silversides 1250 ppm or mg/L (96 hour exposure).  
Keep out of sewers and natural water supplies.

**MOBILITY:**

This material is a mobile liquid.

**DEGRADABILITY:**

This product is partially biodegradable.

**ACCUMULATION:**

Bioaccumulation of this product has not been determined.

**XIII. DISPOSAL CONSIDERATION**

Recycle / dispose of, observing national, regional, state, provincial and local health, safety and pollution laws.

If questions exist, contact the appropriate agencies.

**XIV. TRANSPORT INFORMATION**

**DOT SHIPPING NAME: BULK:** Compounds, Cleaning Liquid (Medium Aliphatic Solvent Naphtha, 2-Butoxyethanol)  
Combustible liquid, NA1993, PG-III Combustible liquid. Not DOT regulated on trucks in containers of < 119 gallons.

DRUM LABEL: None (Combustible Liquid)

IATA / ICAO: None

IMO / IMDG: None

**EMERGENCY RESPONSE GUIDEBOOK NUMBER: 128**

**XV. REGULATORY INFORMATION**

**EPA REGULATION:**

**SARA SECTION 311/312 HAZARDS:** Acute Health, Chronic Health, Fire

All components of this product are on the TSCA list.  
SARA Title III Section 313 Supplier Notification

This product contains the indicated <\*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 372. This information must be included in all MSDS's that are copied and distributed for this material.

**SARA TITLE III INGREDIENTS / CAS # / WT. % (REG.SECTION) / RQ (LBS)**

\*2-Butoxyethanol / 111-76-2 / 11 (313) / None

**INTERNATIONAL REGULATIONS**

The components of this product are listed on the chemical inventories of the following countries: Australia, Canada, Europe (EINECS), Japan, Korea, United Kingdom.

**XVI. OTHER INFORMATION**

**HAZARD RATINGS:**

HEALTH (NFPA): 2, HEALTH (HMIS): 3, FLAMMABILITY: 2, REACTIVITY: 0

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

**EMPLOYEE TRAINING:**

Employees should be made aware of all hazards of this material (as stated in this MSDS) before handling it.

**NOTICE**

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications.

All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency.

Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

Unless updated, that Material Safety Data Sheet (MSDS) is valid until March 2008.

## Penewet

### Wetting Agent & Surfactant

#### Product Description

Penewet is a ready-to-use, colorless wetting agent/surfactant solution incorporating advanced concepts in surface chemistry. It provides powerful wetting, penetrating and coalescing of Asbestos Containing Material (ACM) to permit handling and removal of these materials under damp, dust-free conditions. Penewet is a nonflammable, water-based, non-toxic liquid that will not corrode aluminum components of spray equipment.

**6450-Clear**

#### Application Information

##### SURFACE PREPARATION

Warning! If you scrape, sand, or remove old paint from any surface, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD (5323) or log on to [www.epa.gov/lead](http://www.epa.gov/lead).

Stir Penewet thoroughly to achieve a uniform consistency. Penewet is pre-mixed, water addition is not necessary.

##### APPLICATION TOOLS

Apply Penewet with an airless or pump sprayer.

##### PRODUCT APPLICATION

Apply Penewet initially at full strength. Wait a few minutes after the first application and re-spray to ensure adequate penetration and saturation of ACM. After determining the proper rate of spray that is effective for the removal of the ACM, and documenting acceptable fiber count levels. Air monitoring results will determine the suitability of this procedure.

##### COVERAGE

Depending on thickness and porosity of the material, coverage should not be less than 500 sq. ft. per gallon.

##### CLEANUP

Tools and drippings should be cleaned with warm soapy water. Follow equipment manufacturer's directions to clean spray equipment. Dispose of all waste according

to current Local, State and Federal regulations.

##### PRECAUTIONS

Store in a dry place at temperatures between 40°F (4.5°C) and 90°F (32°C). Approved respirators must be used to prevent inhalation of asbestos fibers that may be present in the air. Protective clothing should be worn.

Careful consideration should be given to all EPA, OSHA, and State regulations in effect at the time of application of Penewet. The EPA, through the Office of Pesticides and Toxic Substances, has issued a report headed "Guidance for Controlling Friable Asbestos Containing Materials in Buildings", EPA 560/5 85-024 June 1985, containing the proper data, cautions and procedures for asbestos control. Copies are available from: TSCA Industry Asst. Office, EPA TS-799, 401 M Street SW, Washington, DC 20460, (202) 554-1404.

##### CAUTION!

##### KEEP OUT OF REACH OF CHILDREN.

Do not take internally. Close container after each use.

Keep from freezing.

Store between 40°F (4.5°C) and 90°F (32°C)  
24 hour Emergency "CHEM-TEL" -  
800.255.3924

#### Properties

##### Product Specifications

Solids by Weight ± 2%:	10.0%
Volatile:	Water
Viscosity at 70°F:	50-55 Krebs Units
Odor:	Odorless
Ionic Nature:	Non-ionic
Flash Point:	Non-combustible
Surface Tension:	31 dynes/cm
Average Particle Size:	0.2 microns
Shelf Life:	36 Months Min.
	(Original Sealed Containers)

##### Coverage

Smooth Surfaces:	500 ft <sup>2</sup> /gal
Porous Surfaces:	300 ft <sup>2</sup> /gal

##### Available Package Sizes

5 gallon containers	
Weight Per Gallon ± .5 lbs:	8.8 lbs/gal



# Penewet

Wetting Agent & Surfactant

## PRODUCT DATA SHEET

6450-Clear

### Application Information

**For Technical Information call 800.342.3755**

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of this product are beyond our control. Neither Fiberlock Technologies, Inc., nor its agents shall be responsible for the use or results of use of this product or any injury, loss or damage, direct or consequential. We recommend that the prospective user determine the suitability of this product for each specific project and for the health and safety of personnel working in the area.

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## Fiberset PM

### Post-Removal Surface Sealant

#### Product Description

Fiberset PM is a pre-mixed "lockdown" sealing treatment for microscopic residual fibers present after the removal of Asbestos Containing Material (ACM). Fiberset PM is a ready-to-use, Class A fire rated coating that provides a flexible barrier over residual fibers to ensure final air clearance. Fiberset PM is UL® classified for use as a primer for fireproofing replacement materials under the "Encapsulant Materials" section of the UL directory, and is compatible with most leading brands of flooring adhesives. Fiberset PM is a water-based, nontoxic coating that employs advanced 100% acrylic resin technology to extend the life expectancy of airless spray equipment.

7470-White, 7475-Clear, 7480-Blue

#### Application Information

##### SURFACE PREPARATION

Warning! If you scrape, sand, or remove old paint from any surface, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD (5323) or log on to [www.epa.gov/lead](http://www.epa.gov/lead).

##### APPLICATION TOOLS

Apply Fiberset PM with airless spray equipment. Use the settings below when applying Fiberset PM:

Spray Settings:  
Pressure: 1700-3000 P.S.I.  
Tips: .015-.021

##### PRODUCT APPLICATION

Stir Fiberset PM thoroughly to achieve a uniform consistency. Fiberset PM is pre-mixed; water-addition is not necessary. Minimum application temperature: 45°F.

**LOCKDOWN:** Sealing microscopic residual fibers after asbestos removal is mandatory on every project. Prior to post-removal air monitoring, apply one coat to all exposed surfaces. Fiberset PM has been accepted as part of a UL Classified Fireproofing System for use with Retro-Guard® manufactured by W.R. Grace & Co., Conn. Coverage should not be less than 500 sq. ft. per gallon on smooth surfaces.

**PULL DOWN BY MISTING:** Misting the contaminated air is an effective technique prior to post-removal air monitoring. To pull down free-floating asbestos fibers effectively, stand in the center of the

room and hold the spray gun as close to the ceiling as possible. A mist should be sprayed parallel to the ceiling in every direction or in a circle. Apply one coat to the polyethylene sheeting on the walls and floor prior to dismantling containment.

##### COVERAGE

Lockdown: Not less than 500 sq. ft. per gallon.

##### DRYING TIME @ 70°F 50% R.H

To Touch: 1-2 hours  
To Recoat: 1-2 hours

##### CLEANUP

Tools and drippings should be cleaned with warm soapy water before coating dries. Follow equipment manufacturer's directions to clean spray equipment. Dispose of all waste according to current Local, State and Federal regulations.

##### PRECAUTIONS

Store in a dry place at temperatures between 40°F (4.5°C) and 90°F (32°C). Approved respirators must be used to prevent inhalation of asbestos fibers that may be present in the air. Protective clothing should be worn.

Careful consideration must be given to all EPA, OSHA, federal, state and local regulations in effect prior to the application of this product.

#### Properties

##### Product Specifications

Solids by Weight ± 2%:	11.0%
Solids by Volume ± 2%:	8.9%
Viscosity at 70°F:	50-60 Krebs units
Specular Gloss:	44° ± 3 @ 60°
Flash Point:	Non-combustible
Shelf Life:	36 Months Min.
	(Original Sealed Container)
Calculated VOC:	17-70 grams/liter

Fiberset PM complies with the requirements for LEED® EQ Credit 4.2, low-emitting materials: paints and coatings.

##### Coverage

Smooth Surfaces:	>500 ft²/gal
Porous Surfaces:	350-500 ft²/gal

##### Drying Times (@ 70 - 77°F, 50% R.H.)

To Touch:	1-2 hours
To Recoat:	1-2 hours
Minimum Application Temp:	50°F (10°C)

##### Available Package Sizes

5 gallon containers	
Weight Per Gallon ± .5lbs:	8.6 lbs/gal

##### Product Testing

UI Classification:	ASTM E-119
UL Category:	Encapsulant Materials





# Fiberset PM

## PRODUCT DATA SHEET

Post-Removal Surface Sealant

7470-White, 7475-Clear, 7480-Blue

### Application Information

**CAUTION!**

**KEEP OUT OF REACH OF CHILDREN.**

Do not take internally. Close container after each use.

Keep from freezing

Store between 40°F (4.5°C) and 90°F (32°C)

24 hour Emergency "CHEM-TEL" - 800.255.3924

**For Technical Information call 800.342.3755**

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of this product are beyond our control. Neither Fiberlock Technologies, Inc., nor its agents shall be responsible for the use or results of use of this product or any injury, loss or damage, direct or consequential. We recommend that the prospective user determine the suitability of this product for each specific project and for the health and safety of personnel working in the area.

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## MATERIAL SAFETY DATA SHEET

### SECTION I

PRODUCT NAME: NASHUA™ 357 Duct Tape  
CHEMICAL FAMILY: Natural and Synthetic Rubber, Natural (100% Cotton) Fibers  
DOT ID NO: Not applicable  
HAZARD CLASS: Non-Hazardous  
EMERGENCY TELEPHONE NUMBER: CHEMTREC 1-800-424-9300  
OTHER TECHNICAL/HEALTH/SAFETY INFORMATION: (800) 228-7745

### SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

This product is not hazardous as defined by OSHA 29 CFR 1910.1200

### SECTION III – PHYSICAL/CHEMICAL INFORMATION

BOILING POINT:	Not applicable	VAPOR DENSITY (Air=1):	Not applicable
pH:	Not applicable	VAPOR PRESSURE:	None
SPECIFIC GRAVITY:	1.1	WATER SOLUBILITY:	Not soluble
FREEZING POINT:	Not applicable	EVAPORATION RATE (BuAc=1):	Not volatile
VISCOSITY:	Not applicable		

APPEARANCE AND ODOR: Tape with tacky adhesive and slight odor.

### SECTION IV – FIRE & EXPLOSION HAZARD DATA

FLASH POINT: Not known  
AUTOIGNITION TEMPERATURE: Not known  
LEL: Not applicable UEL: Not applicable  
EXTINGUISHING MEDIA: Foam, Water, or CO<sub>2</sub>.  
SPECIAL FIRE FIGHTING PROCEDURES: Class B fire fighting procedures.  
UNUSUAL FIRE & EXPLOSION HAZARDS: None

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## SECTION V – REACTIVITY DATA

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STABILITY:	Stable.
INCOMPATIBILITY (Materials to avoid):	None known.
HAZARDOUS DECOMPOSITION PRODUCTS:	Smoke, fumes, carbon compounds, and other decomposition products.
HAZARDOUS POLYMERIZATION:	None.

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## SECTION VI – HEALTH HAZARD DATA

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COMPONENTS LISTED AS KNOWN OR POTENTIAL CARCINOGENS: None listed by NTP, IARC or OSHA.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

ACUTE EFFECTS OF OVEREXPOSURE:

INHALATION:	Not applicable.
SKIN CONTACT:	Repeated contact may cause irritation.
EYE CONTACT:	Treat as foreign object in eye.
INGESTION:	Non-toxic.

CHRONIC EFFECTS OF OVEREXPOSURE: None.

EMERGENCY & FIRST AID PROCEDURES:

INHALATION:	Not applicable
SKIN CONTACT:	No toxic effects likely in ordinary use.
EYE CONTACT:	Treat as foreign object in the eye.
INGESTION:	Not likely in ordinary use.
TOXICITY INFORMATION:	Non-toxic.

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## SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

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SMALL SPILLS: Collect manually and dispose as ordinary waste.

WASTE DISPOSAL: Non-hazardous waste.

PRECAUTIONS FOR HANDLING AND STORING: Storage above 120°F may destroy product functionality, but will not create hazardous conditions.

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## SECTION VIII – CONTROL MEASURES

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VENTILATION REQUIREMENT: None needed.

RESPIRATORY PROTECTION: None needed.

PROTECTIVE GLOVES: None needed.

EYE PROTECTION: None needed.

OTHER PROTECTIVE EQUIPMENT: None needed.

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## SECTION IX – SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Special precautions not needed.

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## SECTION X – REGULATORY INFORMATION

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SARA (313) Chemicals:

This product does not contain toxic chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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DATE OF ISSUE: September 10, 1997

SUPERCEDES: New

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The information presented herein was prepared at **tyco** / Adhesives (R&D Laboratory, 17 Hartwell Avenue, Lexington, MA 02421) by qualified technical personnel, and to our knowledge it is true and accurate. The information and recommendations are furnished for this product with the understanding that the purchaser will independently determine the suitability of the product for his purpose. The data do not constitute a warranty, expressed or implied, statutory or otherwise, nor are they a representation for which **tyco** / Adhesives assumes legal responsibility. The data are submitted for the user's information and consideration only. Any use of this product must be determined by the user to be in accordance with the applicable federal, state, and local laws and regulations.

**END**

Spray Rite 12 OZ Heavy Duty Adhesive Spray  
**MANUFACTURED BY: CHEM TECH INC**  
**ADDRESS: 501 Bloomingdale Dr.**  
**Bristol, IN 46507**  
**EMERGENCY PHONE NUMBER: CHEM TREC**  
**1-800-424-9300**

H. M. I. S.	
HEALTH	2
REACTIVITY	0
FLAMMABILITY	4
THESE RATINGS SHOULD BE USED ONLY AS PART OF A FULLY IMPLEMENTED HMIS SYSTEM	

**INFORMATION NUMBER: 1-574-848-1001**

**MATERIAL SAFETY DATA SHEET**

**SECTION I**

**PRODUCT CLASS: AEROSOL ADHESIVE** **PRODUCT CODE NUMBER: SR12CC**  
**DATE: 3/27/07**  
**HAZARDOUS MATERIAL DESCRIPTION: Consumer Commodity ORM-D**  
**PRODUCT NAME: Spray Rite 12 oz Heavy Duty Adhesive Spray – California Compliant**

**SECTION II- HAZARDOUS INGREDIENTS**

INGREDIENT WT %	CAS NO	OSHA		TWA	STEL	SARA (OPTIONAL)
		PEL	TLV			
ACETONE 20-30	67-64-1	1000	750		1000	
PROPANE 20-30	74-98-6	1000	1000		ASPHYXIA	
HEXANE 10-20	110-54-3		500	500	1000	X
ISOBUTANE 5-15	75-28-5	N/A	800		N/A	

**SECTION III- HEALTH HAZARD INFORMATION**

**EFFECTS OF OVEREXPOSURE:**  
**PRIMARY ROUTES OF ENTRY: SKIN CONTACT. EYE CONTACT. ABSORPTION. INHALATION.**  
**INHALATION: CAN CAUSE IRRITATION TO THE NOSE AND THROAT. HIGH CONCENTRATIONS MAY CAUSE HEADACHES, DIZZINESS, NAUSEA, AND CONFUSION.**  
**EYE: MAY CAUSE EYE IRRITATION**  
**SKIN: MAY CAUSE TRANSIENT SKIN IRRITATION**  
**INGESTION: MAY CAUSE GASTROINTESTINAL IRRITATION.**  
**OTHER: REPORTS HAVE ASSOCIATED PROLONGED AND REPEATED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.**

**SECTION IV- FIRST AID PROCEDURES**

**SWALLOWING: IF SWALLOWED DO NOT INDUCE VOMITING. CALL POISON CONTROL CENTER, HOSPITAL EMERGENCY ROOM OR PHYSICIAN IMMEDIATELY.**  
**INHALATION: REMOVE TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED GIVE ARTIFICIAL RESPIRATION. KEEP WARM AND QUIET. GET MEDICAL ATTENTION.**

Spray Rite 12 OZ Heavy Duty Adhesive Spray

- 2 -

**EYE:** FLUSH WITH LARGE AMOUNTS OF WATER, LIFTING UPPER AND LOWER LIDS OCCASIONALLY. CONTINUE FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

**SKIN:** REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREA WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

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#### SECTION V- PHYSICAL DATA

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BOILING POINT	-40 F TO 160 F	SPECIFIC GRAVITY	0.6
VAPOR PRESSURE PSIG @ 70F	70 APPROX	MELTING POINT	N.A.
VAPOR DENSITY	2.5	% VOLATILE	80%

**APPEARANCE AND ODOR:** CLEAR LIGHT AMBER SOLUTION

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#### SECTION VI - FIRE AND EXPLOSION DATA

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**FLASH POINT AND METHOD:** -40 F TCC

**FLAMMABLE LIMITS:** 1.8 LEL  
12.0 UEL

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** AEROSOL CANS MAY RUPTURE WHEN HEATED

**EXTINGUISHING MEDIA:** USE WATER FOG, DRY CHEMICAL, FOAM OR CARBON DIOXIDE

**SPECIAL FIRE FIGHTING PROCEDURES:** HEATING OF CONTENTS ABOVE 130 F MAY CAUSE CANS TO BURST.

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#### SECTION VII- REACTION DATA

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**STABILITY:** STABLE

**CONDITIONS TO AVOID:** STORING IN HIGH TEMPERATURES OR EXPOSING TO OPEN FLAMES

**INCOMPATIBILITY (CONDITIONS TO AVOID):** NONE

**HAZARDOUS DECOMPOSITION PRODUCTS:** CARBON MONOXIDE AND CARBON DIOXIDE.

**HAZARDOUS POLYMERIZATION:** NONE

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#### SECTION VIII- SPILL OR LEAK INFORMATION

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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** ELIMINATE ALL SOURCES OF IGNITION. PERMIT ONLY PROPERLY PROTECTED WORKERS IN THE AREA WITH SKIN/EYE PROTECTION AND SELF CONTAINED BREATHING GEAR. ABSORB SMALL SPILLS WITH INERT ABSORBENT MATERIAL. CONTAIN SPILLED LIQUID TO PREVENT CONTAMINATION OF SOIL, AND SURFACE WATER OR GROUND WATER. CONTACT STATE, LOCAL AND FEDERAL AGENCIES TO ENSURE COMPLIANCE WITH CURRENT REGULATIONS.

**WASTE DISPOSAL METHOD:** WASTE MUST BE DISPOSED OF ACCORDING TO LOCAL, STATE, AND FEDERAL REGULATIONS.

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#### SECTION IX- PERSONAL PROTECTION INFORMATION

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**RESPIRATION PROTECTION:** IF THE TLV'S LISTED IN SECTION II ARE EXCEEDED USE A PROPERLY FITTED NIOSH/MSHA APPROVED RESPIRATOR

**VENTILATION:** LOCAL AND MECHANICAL VENTILATION ARE RECOMMENDED TO KEEP ANY HAZARDOUS INGREDIENTS LISTED IN SECTION II BELOW THE LOWEST EXPOSURE LIMIT.

**HAND PROTECTION:** RESISTANT PLASTIC OR RUBBER RECOMMENDED.

**EYE PROTECTION:** WEAR SAFETY CHEMICAL SPLASH GOGGLES.

**OTHER PROTECTIVE EQUIPMENT:** NOT LIKELY TO BE NEEDED.

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**SECTION X- SPECIAL PROCEDURES**

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**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** STORE CANS IN A COOL, DRY AND WELL VENTILATED AREA AWAY FROM ALL IGNITION SOURCES. PROLONGED EXPOSURE OF CANS TO ELEVATED TEMPERATURES MAY CAUSE CANS TO RUPTURE OR BURST.

**THE FOREGOING DATA HAS BEEN COMPILED FROM SOURCES WE BELIEVE TO BE ACCURATE. NO WARRANTY, EXPRESS OR IMPLIED, IS INTENDED. THIS INFORMATION IS OFFERED SOLELY FOR YOUR CONSIDERATION AND INTERPRETATION.**