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MANUFACTURER'S NAME:

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SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE.: 2125

TRADE NAME...: LACQUER PROOF FILLER

PRODUCT CLASS: ADDITIVE

INK SERIES...:

- H M I S C O D E S -  
HEALTH - 3\*  
FLAMMABILITY - 3  
REACTIVITY - 0  
PPE - X

SECTION 2 -- COMPOSITION, INFORMATION ON INGREDIENTS

CHEMICAL NAME; COMMON NAME; CAS NUMBER	PERCENT BY WEIGHT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE IN mmHg	NOTES
		-----ACGIH----- TLV	-----OSHA----- PEL		
ACETONE; 2-PROPANONE; CAS #: 67-64-1	65-70	500 ppm STEL: 750 ppm	750 ppm STEL: 1000 ppm	186 @ 20C	( 1)
RESIN MIXTURES; CAS #: NOT AVAILABLE	15-20	NOT ESTABLISHED	NOT ESTABLISHED	<1 @ 20C	
DIACETONE ALCOHOL; 4-HYDROXY-4-METHYL-2-PENTANONE; CAS #: 123-42-2	10-15	50 ppm	50 ppm	1.0 @ 20C	

1) The U.S. EPA and Environment Canada have removed acetone from the list of volatile organic compounds (VOCs).

The recommended permissible exposure limits (PEL) indicated above reflect the levels adopted by OSHA in 1989. Although, some of the 1989 levels have since been vacated, the Nazdar Company recommends that the lower exposure levels be observed as reasonable worker protection.

SECTION 3 -- HAZARDS IDENTIFICATION

GENERAL HEALTH EFFECTS

THE FOLLOWING INFORMATION HAS BEEN DEVELOPED BASED UPON USING THE PRODUCT AS INTENDED BY THE MANUFACTURER. The potential health effects of this product are based on the hazards of its components. The use of this product in combination with other products may produce synergistic (additive) health effects. Cautionary labeling and material safety data sheets of all materials used with this product should be reviewed before use.

EYES

Eye contact with liquid, vapors or mists may cause moderate to severe irritation, including burning, tearing, redness or swelling and eye damage.

SKIN

Skin contact may cause irritation. Repeated or prolonged overexposure may cause skin irritation or dermatitis. Symptoms may include dryness, chapping and redness. Skin absorption is possible but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

INHALATION

Inhalation may cause respiratory tract irritation. Symptoms may include central nervous system disorders such as headaches, dizziness, weakness and fatigue.

INGESTION

Ingestion may cause gastrointestinal tract irritation. Symptoms may include nervous system depression including drowsiness or unconsciousness.

CHRONIC EFFECTS/TARGET ORGANS

Reports have associated repeated and prolonged 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.

ANIMAL STUDIES

Acetone has been suggested as a cause of the following effects, after overexposure, in laboratory animals, and may aggravate pre-existing disorders of these organs in humans; mild, reversible liver effects and mild, reversible kidney effects. Acetone

has been shown to cause harm to the fetus in lab animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain. Diacetone alcohol has been found to cause kidney and liver injury and blood disorders in lab animals. For animal studies, reference TSCA Section 4 Test Rule Results or contact the manufacturer for further details.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

Pregnant women and persons with pre-existing health disorders should consult their physician before using this product. Repeated and prolonged overexposure and/or individual sensitivity may increase the potential for and degree of adverse health effects. See Section 3 "Hazards Identification" for effects of certain hazardous ingredients.

**ROUTES OF EXPOSURE**

Primary exposure routes: Inhalation-Dermal (Contact/Absorption)-Ingestion

**SECTION 4 -- FIRST AID MEASURES****EYES**

After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If irritation persists have eyes examined and tested by medical personnel.

**SKIN**

In case of contact, immediately wash skin with a mild soap and plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Cool water is initially suggested to prevent the pores of the skin from opening. This will minimize both the area and time of skin contact. Lukewarm water may then be used to ensure all contaminants are removed. Skin should be monitored for reddening or chemical burns. Mild soap is suggested to help prevent abrading the skin or rubbing the chemicals into pores during cleansing. Get medical attention if irritation persists or significant contact has occurred. Thoroughly wash (or discard) clothing and shoes before reuse.

**INHALATION**

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention if breathing difficulty is experienced.

**INGESTION**

If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**OTHER COMMENTS**

No Data Available

**SECTION 5 -- FIRE FIGHTING MEASURES****FLASH POINT**

Less than 0 Degree Fahrenheit (PMCC)

**OSHA FLAMMABILITY CLASSIFICATION (NFPA)**

Class 1B Flammable Liquid

**FLAMMABLE LIMITS (LEL-LOWER EXPLOSIVE LIMIT)**

1.8% volume in air

**EXTINGUISHING MEDIA**

Foam-CO2-Dry Chemical-Water Spray

**FIRE AND EXPLOSION HAZARDS**

Isolate from heat, electrical equipment, sparks, and open flame. Keep containers tightly closed. Vapors may be heavier than air and can travel to a source of ignition then flash back. Closed containers may explode when exposed to extreme heat.

**FIRE FIGHTING EQUIPMENT**

Full protective equipment including self-contained breathing apparatus (SCBA) is recommended to protect firefighters.

**SPECIAL FIRE FIGHTING PROCEDURES**

Water may be ineffective but may be used to cool containers. Fumes released on burning may be toxic and dangerous.

**SECTION 6 -- ACCIDENTAL RELEASE MEASURES****RELEASE MANAGEMENT MEASURES**

Remove all sources of ignition (flames, hot surfaces and electrical, static or frictional sparks). Avoid contact or breathing vapors. Ventilate area. Contain release and remove with inert absorbent. Use non-sparking tools to place material in appropriate container for disposal. The National Response Center (800-424-8802) and local authorities should be contacted for any reportable spill/release.

**SECTION 7 -- HANDLING AND STORAGE**

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**HANDLING AND STORAGE METHODS**

Use in a well ventilated area. Follow all MSDS/label precautions even after container is emptied; container may retain product residues. Store in closed containers in cool, dry, well ventilated area away from sources of ignition. Keep containers closed when not in use. Smoke in designated areas only. Avoid prolonged or repeated overexposure to this product. Keep out of reach of children. Follow label directions carefully. Do not take internally. Harmful or fatal if swallowed.

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**SECTION 8 -- EXPOSURE CONTROLS, PERSONAL PROTECTION**

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**RESPIRATORY PROTECTION**

If concentrations of hazardous ingredients exceed exposure limits listed in Section 2 an appropriate NIOSH (National Institute for Occupational Safety and Health) approved respirator with an organic vapor cartridge should be used. If material is handled under mist, spray or dust forming conditions, a P100 (99.97% efficiency) filter should be used in addition to the organic vapor cartridge. If no exposure limits are listed in Section 2, follow general safety guidelines in 29 CFR 1910.134 Respiratory Protection or other applicable respiratory standard.

**SKIN PROTECTION**

Use neoprene, nitrile or other gloves resistant to chemicals listed in Section 2. Contact a reputable safety supply company for appropriate gloves. Solvent resistant aprons are recommended. Prevent prolonged skin contact with contaminated clothing.

**EYE PROTECTION**

Use ANSI (American National Standards Institute) approved safety glasses, faceshield or splash proof goggles to prevent eye contact. Contact a reputable safety supply company for appropriate eye protection. The availability of an eye wash is highly recommended.

**EXPOSURE GUIDELINES**

See Section 2 "Composition, Information on Ingredients" for occupational exposure limits.

**HYGIENIC PRACTICES**

Wash with soap and water before eating, smoking or using toilet facilities. Separately wash or discard clothing and footwear before reuse. NEVER try to remove ink from the skin by using solvent or thinner. Such action is likely to increase the possibility of undesirable effects. Remove contaminated clothing to prevent prolonged skin contact.

**ENGINEERING CONTROLS**

Use applicable engineering controls, work practices and personal protective equipment to ensure all concentrations are kept below the exposure limits listed in Section 2. Adequate controls should be implemented to ensure employee safety from fine mists which may be produced under some printing conditions.

**OTHER PROTECTION**

No Data Available

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**SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES**

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**\*\*****APPEARANCE:**

Thin liquid

**ODOR:**

Characteristic

**PHYSICAL STATE:**

Liquid

**pH**

Not applicable

**VAPOR PRESSURE**

See Section 2 for individual ingredients.

**VAPOR DENSITY**

Heavier than air

**BOILING POINT**

Greater than 300 degrees Fahrenheit

**FREEZING POINT**

Not available

**SOLUBILITY IN WATER**

Not tested

**EVAPORATION RATE**

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Slower than ether

PERCENT VOLATILE BY VOLUME: 26.87 %

WEIGHT PER GALLON: 7.24 lbs/gal

VOC: 257.30 g/L  
2.14 lb/gal

PHOTOCHEMICALLY REACTIVE  
No

VOC's including Acetone = 101 (g/L)  
Percent Volatile = Percent VOC

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SECTION 10 -- STABILITY AND REACTIVITY  
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CHEMICAL STABILITY  
Stable

CONDITIONS TO AVOID  
Avoid excessive heat, ignition sources, sparks and open flame.

INCOMPATIBILITY WITH OTHER MATERIALS  
Strong acids/bases, oxidizing/reducing agents and reactive chemicals.

HAZARDOUS DECOMPOSITION PRODUCTS  
May produce hazardous fumes when heated to decomposition e.g. carbon monoxide, carbon dioxide and other noxious gases.

HAZARDOUS POLYMERIZATION  
Not anticipated during normal printing and storage conditions.

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SECTION 11 -- TOXICOLOGICAL INFORMATION  
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EXPERIMENTAL TOXICITY DATA

Experimental toxicity data on acetone has given the following results: Oral LD50 Rat; 9700 mg/kg; Dermal LD50 Rabbit; 20 ml/kg; Inhalation LCLO Rat; 16000 ppm. Experimental toxicity data on diacetone alcohol has given the following results: Intraperitoneal LD50 Mouse; 933 mg/kg. Oral LD50 Rat; 4 g/kg; Dermal LD50 Rabbit; 13.6 g/kg.

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SECTION 12 -- ECOLOGICAL INFORMATION  
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ECOTOXICITY  
No Data Available

ENVIRONMENTAL FATE  
No Data Available

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SECTION 13 -- DISPOSAL CONSIDERATIONS  
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DISPOSAL METHODS

Dispose of in accordance with applicable local, county, state, provincial and federal regulations. Emptied containers may retain hazardous properties. Empty containers should be disposed of in an environmentally safe manner in accordance with applicable regulations.

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SECTION 14 -- TRANSPORT INFORMATION  
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TRANSPORT INFORMATION

DOT Proper Shipping Description: Paint Related Material, 3, UN1263, PG II.

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SECTION 15 -- REGULATORY INFORMATION  
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SARA TITLE III 313 INFORMATION

See Section 2 "Composition, Information on Ingredients" for applicable chemicals.

TOXIC SUBSTANCES CONTROL ACT STATUS

All ingredients in Section 2 are listed on the U.S. Environmental Protection Agency's Toxic Substances Control Act (TSCA) Inventory and the Canadian Domestic Substance List.

OTHER REGULATORY INFORMATION

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No Data Available

WHMIS CLASSIFICATION (CANADA):  
No Data Available

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SECTION 16 -- OTHER INFORMATION  
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DISCLOSURE

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind express or implied is made with respect to the information contained herein. The data in this MSDS relates only to the specific material designated herein and does not apply to use in combination with any other material or process.

DEFINITIONS

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CEILING: (TLV-Ceiling and PEL Ceiling Limit) The ceiling exposure limit or concentration not to be exceeded for even brief times.

DOT: Department of Transportation

HMIS: The Hazardous Materials Identification System (HMIS) developed by the National Paint and Coatings Association (NPCA) to provide information on the acute health hazards, reactivity and flammability of products encountered in the workplace at room temperatures.

HMIS codes assigned for this product are only suggested ratings based on anticipated normal screen printing applications. The employer has the ultimate responsibility for assigning these ratings and should fully evaluate the MSDS, work practices and environmental conditions prior to assigning the appropriate ratings.

HMIS Personal Protection Index of "X-Ask your supervisor" is given on this MSDS due to varying work conditions which may dictate different levels of protection. Please review this MSDS before determining appropriate protective equipment and beginning work.

IARC: International Agency for Research on Cancer

NFPA: National Fire Protection Association

NTP: National Toxicology Program

STEL: Short-Term Exposure Limit: ACGIH terminology for the short-term exposure limit or maximum concentration for a continuous exposure period of 15 minutes.

TLV: Threshold Limit Value. A term ACGIH uses to express the airborne concentration of a material to which most workers can be exposed during a normal daily and weekly work schedule without adverse effects.

TWA: Time-Weighted Average

VOC: Volatile Organic Compound