

MATERIAL SAFETY DATA SHEET

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SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE.: 925

TRADE NAME...: 925 FOTOGEL

PRODUCT CLASS: SCREEN PRINTING RELATED MATERIAL

INK SERIES...:

- H M I S C O D E S -  
HEALTH - 1\*  
FLAMMABILITY - 1  
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		
ENZYME; CAS #: NOT AVAILABLE	100	10 mg/m3 As dust	15 mg/m3 As dust	N/A	( 1)

1) See Section 8 Exposure Controls, Personal Protection - Exposure Guidelines for more information on exposure limits.

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

Low hazard for normal industrial handling; however, any material that contacts the eye may be irritating.

SKIN

Low hazard for normal industrial handling. Skin contact may cause irritation.

INHALATION

Long-term inhalation of excessive dust may cause delayed lung injury. Inhalation may cause respiratory tract irritation.

INGESTION

Ingestion may cause gastrointestinal tract irritation.

CHRONIC EFFECTS/TARGET ORGANS

No Data Available

ANIMAL STUDIES

No Data Available

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

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**SECTION 5 -- FIRE FIGHTING MEASURES**

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**FLASH POINT**

No Data Available

**OSHA FLAMMABILITY CLASSIFICATION (NFPA)**

No Data Available

**LEL - LOWER EXPLOSIVE LIMIT / UEL - UPPER EXPLOSIVE LIMIT**

No Data Available

**EXTINGUISHING MEDIA**

Foam-CO2-Dry Chemical-Water Spray

**FIRE AND EXPLOSION HAZARDS**

Potential for dust explosion.

**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.

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**SECTION 6 -- ACCIDENTAL RELEASE MEASURES**

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**RELEASE MANAGEMENT MEASURES**

This product is not defined as a hazardous waste under EPA 40 CFR 261. Sweep up and dispose of as any dust or dirt. Use non-sparking tools to place material in appropriate container for disposal.

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**SECTION 7 -- HANDLING AND STORAGE**

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**HANDLING AND STORAGE METHODS**

Keep at cool temperatures. Enzyme begins losing activity after about 6 months at 70 degrees Fahrenheit. Keep containers sealed.

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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. Protection provided by air-purifying respirators is limited. 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.

**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. Excessive concentrations of nuisance dusts or particulates not otherwise classified (PNOG) or regulated (PNOR) may reduce visibility and cause unpleasant deposits in the eyes, ears, and nasal passages. The TLV and PEL has been established for all non-toxic "nuisance dusts" that are not otherwise classified and refers to both organic and inorganic dusts. Exposure or generation of these dusts is not anticipated during normal printing operations. The use of dry pigments and powders, grinding or sanding of printed products may generate quantities of these particulates. Refer to Section 2 Composition, Information on Ingredients for 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. 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

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

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**APPEARANCE:**

White Flakes

**ODOR:**

Slt. Fermentation

**PHYSICAL STATE:**

Solid

**pH**

Not applicable

**VAPOR PRESSURE**

Not applicable

**BOILING POINT**

Not applicable

**SOLUBILITY IN WATER**

Complete

**PERCENT VOLATILE BY VOLUME: 0%****WEIGHT PER GALLON:****PHOTOCHEMICALLY REACTIVE**

No

This product is nonvolatile and does not contain any Volatile Organic Compounds (VOC).

**SECTION 10 -- STABILITY AND REACTIVITY****CHEMICAL STABILITY**

Stable

**CONDITIONS TO AVOID**

No Data Available

**INCOMPATIBILITY WITH OTHER MATERIALS**

No Data Available

**HAZARDOUS DECOMPOSITION PRODUCTS**

No Data Available

**HAZARDOUS POLYMERIZATION**

No Data Available

**SECTION 11 -- TOXICOLOGICAL INFORMATION**

## EXPERIMENTAL TOXICITY DATA

Refer to Section 3 Hazards Identification for additional toxicological data.

## SECTION 12 -- ECOLOGICAL INFORMATION

## ECOTOXICITY

Because this product may be a mixture of chemicals, some of which may be ecologically toxic, it is strongly suggested that it not be disposed of into the environment, i.e. soil, water courses, lakes, landfills, sewers, etc.

## ENVIRONMENTAL FATE

No Data Available

## SECTION 13 -- DISPOSAL CONSIDERATIONS

## DISPOSAL METHODS

This product, as supplied, is considered non-hazardous for disposal purposes by the U.S. Environmental Protection Agency Resource Conservation and Recovery Act (RCRA). If combined with other products, the user should determine if hazardous waste codes are required. It is the responsibility of the user to determine if local, county, state, or provincial regulations may also apply to the disposal of this product and/or the container.

## SECTION 14 -- TRANSPORT INFORMATION

## TRANSPORT INFORMATION

Not regulated. The product(s) described by this Material Safety Data Sheet do not meet the definition of nor are they classified as a hazardous material/dangerous good as defined by the United States Department of Transportation (DOT), the International Civil Aviation Organization (ICAO), the International Maritime Organization (IMO) or the Canadian Transportation of Dangerous Goods Act (TDG). Questions concerning transportation requirements should be directed to Nazdar's Regulatory Compliance Department 913-422-1735.

## SECTION 15 -- REGULATORY INFORMATION

## 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

OCCUPATIONAL SAFETY and HEALTH ADMINISTRATION (OSHA) - MSDS is compliant with Occupational Safety and Health Administration Hazard Communication Standard - 29 CFR 1910.1200. AMERICAN NATIONAL STANDARDS INSTITUTE - This MSDS follows the ANSI Z400.1-1998 format. WORKPLACE HAZARDOUS MATERIAL INFORMATION SYSTEM (WHMIS) - This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

## WHMIS CLASSIFICATION (CANADA):

No Data Available

## SECTION 16 -- OTHER INFORMATION

## 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

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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 rating involves data interpretations that may vary from company to company.

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