

# MATERIAL SAFETY DATA SHEET

## IDENTITY

(As Used on Label and List)

**GLASSPRO WATER SOLUBLE FLUX** (CAT. # 5001-5002-5003)

## SECTION I – Manufacturer/Product Identification:

### Manufacturer's (Distributor's) Name:

Creative Craftsmen Co., Inc.  
27625 Diehl Road  
Warrenville, Illinois 60555-3838

### Emergency Telephone Number:

888- 215-4878

### Information Telephone Number:

630-836-1353 Toll Free: 800-323-5668

**Trade Name:** GLASSPRO WATER SOLUBLE FLUX

**Product Type:** Flux

**Chemical Family:** Glycerin and acid

**Date Prepared:** 08/21/98

**Revision:** 01/21/11

**Prepared By:** Satterfield Consulting

## SECTION II – Hazardous Ingredients Information:

The information contained herein is believed to be correct and reliable. However, no warranty is expressed or implied regarding the accuracy of this data, and none is made as to the marketability of the material or its fitness for any purpose. The consumer accepts the responsibility of and the conditions for liability of use of the product.

This product contains material that may be hazardous when airborne as a particulate.

### HAZARDOUS COMPONENTS<sup>a</sup>:

(Specific Chemical Identity;  
Common Name)

CAS Number	SARA <sup>b</sup>	OSHA PEL <sup>c</sup> (mg/m <sup>3</sup> ) <sup>d</sup>	ACGIH TLV <sup>e</sup> (mg/m <sup>3</sup> )	NOTES	PERCENT <sup>f</sup>
56-81-5		5 mg/m <sup>3</sup> 15 mg/m <sup>3</sup>	3 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>	Respirable Total Particulate	87.5
7647-01-1	X	5 ppm (Ceiling)	5 ppm	50 mg/m <sup>3</sup> (NIOSH, IDLH)	3.7-5.0

### Notes:

- The term "Hazardous" is defined in the OSHA Hazard Communication Standard (29 CFR 1910.1200) and does not necessarily imply the existence of any hazard. All components at concentrations equal to or greater than 1.0 percent (0.1 percent if a carcinogen) are listed in this section, according to OSHA 29 CFR 1910.1200.
- An asterisk (\*) indicates a toxic chemical subject to the EPA's reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (SARA) and 40 CFR Part 372.
- These permissible exposure limits (PELs) are based on OSHA's rulemaking (29 CFR 1910 Subpart Z) adopted on May 29, 1971, and are the current regulatory limits, unless otherwise noted. Consult the OSHA regulations for particulate (29 CFR 1910.1000) for additional requirements.
- These values are reported as milligrams of contaminant per cubic meter of air (mg/m<sup>3</sup>).
- These values are based on the American Conference of Governmental Industrial Hygienists (ACGIH) 2010 TLVs.
- Approximate percent by weight values. The amount of each ingredient in this product is confidential and deemed proprietary. Contact the manufacturer for additional information.
- The OSHA permissible exposure level for respirable and total mineral dusts containing silica are based on formulas established by OSHA in Table Z, Mineral Dusts, of 29 CFR 1910.1000.
- NA = Not Available or Not Applicable

### HAZARDOUS COMPONENTS EMERGENCY OVERVIEW:

#### DANGER

**CORROSIVE!** Causes skin and eye burns.

Breathing mist and vapors can cause respiratory tract irritation or burns.

Ingestion of large amounts can cause digestive tract burns, nausea and vomiting.



**SECTION VI – Health Hazard Data (Continued):****Chronic (Long-Term) Effects:**

Repeated and prolonged inhalation of mist and vapors may cause impaired lung function including irritation of the nose throat and respiratory tract..

Frequent or prolonged contact may irritate the skin, cause a skin rash (dermatitis), dry the skin and damage the eyes.

**REPRODUCTIVE OR DEVELOPMENTAL EFFECTS:** No ingredient is listed on the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) list of chemicals known to cause reproductive effects. However, arsenic may be present in trace amounts.

**CARCINOGENICITY:** NTP: NO IARC: NO OSHA REGULATED: NO

\* \* This product does not contain any ingredient that is designated as a carcinogen by the National Toxicology Program (NTP) Annual Report on Carcinogens, is in the International Agency for Research on Cancer (IARC) Monographs and is also considered a carcinogen by OSHA.

\*\* This product does not contain or produce a chemical known to the State of California and other states, if applicable, to cause cancer.

**SIGNS AND SYMPTOMS OF EXPOSURE:** Skin, eye and respiratory tract irritation or damage. Ingestion may affect the kidneys.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

Skin, eye and respiratory tract ailments.

**EMERGENCY AND FIRST AID PROCEDURES:**

**Inhalation:** Exit to fresh air. Support breathing as needed. If conditions persist, seek medical attention.

**Eyes:** Hold eyelids apart and flush eyes with plenty of water for at least 30 minutes. Seek medical attention if irritation persists.

**Skin:** Remove contaminated clothing and wash affected area with plenty of soap and water. If redness or irritation develops, seek medical attention. Discard or decontaminate clothing before reuse.

**Ingestion:** Immediately rinse mouth with plenty of water. If within 30 minutes of ingestion give a small glass of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician or poison control center.

**Note to Physician:** Skin, eye and respiratory contact are of concern. Product is a strong acid.

**SECTION VII – Precautions for Safe Handling and Use:****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

**Caution:** This material is a liquid and is slippery on surfaces. Do not leave spills on floors unattended. Barricade spill area until cleanup is complete. Avoid stepping in spilled material. Eliminate all ignition sources.

Contain small spills using appropriate personal protective equipment including acid resistant gloves and clothing. Use appropriate containment materials including neutralizers (i.e., soda ash or slaked lime) and sand or other non-combustible absorbents. Place absorbents into appropriate containers for disposal.

During clean up of dried material avoid creating airborne dust and vapors (e.g., use wet methods). Where product is dry and may become airborne utilize appropriate personal protective equipment such as a NIOSH approved air-purifying respirator equipped with filters approved for particulate (P-100) and acid gases. Keep spilled material and waste out of sewers and waterways.

If an emergency situation exists, contact spill response personnel. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities.

CECLA Reportable Quantity: 5000 lbs For Hydrochloric Acid (Cas# 7647-01-0)

**WASTE DISPOSAL METHOD:** Dispose of in accordance with local, state, and/or federal regulations. Consult and environmental expert for advice on disposal. In small quantities, this material is not classified as a hazardous waste and is not regulated under RCRA. Small amounts and cleanup debris can be disposed of as regular waste. (40 CFR 261.20-24)

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

When not in use, store in tightly closed containers in a dry, cool, well-ventilated area. Store out of direct sunlight. Do not store with incompatible materials. Use only when wearing appropriate personal protective equipment. Use only with adequate ventilation that keeps mist/vapor at levels below the permissible exposure limit (PEL). Handle so as not to create airborne mist/vapor. Avoid breathing mist/vapor. Utilize appropriate NIOSH-approved respirator if airborne exposure exceeds the PEL. Handle with care. Avoid unnecessary eye and prolonged skin contact. Wash thoroughly after handling.

**SECTION VII – Precautions for Safe Handling and Use (Cont.):**

**PRECAUTIONS TO BE USED DURING REPAIR AND MAINTENANCE:** Not Applicable

**OTHER PRECAUTIONS:** Empty containers may contain residue and are considered hazardous. Do not reuse empty containers for food, clothing or for personal consumption products. Keep out of reach of children.

**SECTION VIII – Control Measures/Personal Protection:****VENTILATION:**

**Local Exhaust:** If necessary, use enclosures with local exhaust ventilation to keep exposures below PELs.

**Mechanical:** If necessary to keep mist/vapor levels below PELs. Recommended for confined areas and when handling dry material.

**Special:** NA.

**RESPIRATORY PROTECTION (Specify Type):** Under normal conditions of use respiratory protection is not needed.

Where exposure above the OSHA PEL is likely, utilize a NIOSH approved half-mask or full-face piece air-purifying respirator (APR) equipped with filters approved for acid gases and particulate. APRs do not protect workers in oxygen deficient atmospheres. If there is a potential for an uncontrolled release, exposure levels are not known, or there are circumstances where APR may not provide adequate protection, use a positive pressure air supplied respirator.

**PROTECTIVE GLOVES:** Utilize chemically resistant gloves including neoprene, nitrile rubber, PVC, or butyl rubber.

**EYE PROTECTION:** Safety glasses with side shields, goggles or face shield.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Utilize chemically resistant clothing and boots.

**SAFETY STATIONS:** Make available in the work area emergency eyewash stations, safety showers and washing facilities.

**WORK/HYGIENIC PRACTICES:** Avoid skin and eye contact. Avoid breathing mist/vapor. Practice good personal hygiene. Do not eat, drink, smoke, or apply cosmetics in work areas. Wash face and hands prior to eating, drinking or other hand-to-mouth activities. Launder contaminated clothing before reuse.

**SECTION IX – Transportation Data:**

**DOT Proper Shipping Name:** Consumer commodity, ORM-D for quantity not exceeding one gallon.

**UN Hazard Class:** 8, Corrosive Liquid Acids

**UN Number:** 3264

**DOT Label:** ORM-D

**SECTION X – Label Information:**

**SUBSTANCE IDENTITY:** GLASSPRO WATER SOLUBLE FLUX (CAT # 5001-5002-5003)

**CAUTION:** Avoid generating and breathing mist/vapor. Avoid skin and eye contact. Keep out of reach to children. Use chemical resistant personal protective equipment (gloves and clothing) and safety glasses or goggles.

**HEALTH HAZARDS:** This product is corrosive and upon contact with eyes, skin, and the respiratory system it can cause irritation and burns.

**ROUTES OF ENTRY:**

**Inhalation:** YES      **Skin/Eye Contact:** YES      **Skin Absorption:** NO      **Ingestion:** Unlikely

**SECTION XI – Generic Label Information:****SUBSTANCE IDENTITY:** Glasspro Water Soluble Flux (CAT. #s 5001-5002-5003)**HMIS LABEL CODE:****HEALTH HAZARDS:**

Toxic	<u>  X  </u>	Corrosive	<u>  X  </u>
Highly Toxic	<u>      </u>	Sensitizer	<u>      </u>
Irritant	<u>  X  </u>	Carcinogen	<u>      </u>

<b>Health = 3</b>
<b>Flammability = 0</b>
<b>Reactivity = 1</b>
<b>Personal Protection = E</b>

**IMMEDIATE AND DELAYED TARGET ORGAN EFFECTS:**

Cutaneous Hazard (Skin Damage)	<u>  X  </u>	Eye Hazard	<u>  X  </u>	Pulmonary Disfunction (Lung Damage)	<u>  X  </u>
Neurotoxin (Nervous Sys. Damage)	<u>      </u>	Nephrotoxin (Kidney Damage)	<u>  X  </u>	Hepatotoxin (Liver Damage)	<u>      </u>
Reproductive Toxin (Birth Defect, Sterility)	<u>      </u>	Hematopoietic (Blood Sys. Damage)	<u>      </u>		

**ROUTES OF ENTRY:**

Ingestion:	<u>  Unlikely  </u>	Inhalation:	<u>  X  </u>	Skin Absorption:	<u>  No  </u>	Skin/Eye Contact:	<u>  X  </u>
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**PHYSICAL HAZARDS:**

Combustible Liquid	<u>      </u>	Compressed Gas	<u>      </u>	Explosive	<u>      </u>
Flammable Gas	<u>      </u>	Flammable Liquid/Solid	<u>      </u>	Organic Peroxide	<u>      </u>
Oxidizer	<u>      </u>	Pyrophoric	<u>      </u>	Unstable (Reactive)	<u>      </u>
Water reactive	<u>  X  </u>				

**SECTION XII – Disclaimer:**

Creative Craftsmen Co. Inc. expressly disclaims all expressed or implied warranties for merchantability and fitness for a particular purpose, with respect to the product or information provided herein.

All information appearing herein is based upon data obtained from suppliers of the raw materials. While the information is believed to be accurate, Creative Craftsmen Co. Inc. makes no representation as to its accuracy or sufficiency. Conditions of use are beyond Creative Craftsmen Co. Inc. control. Therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes. Users assume all risks of their use, handling, and disposal of the product, or from the publication, or use of, or reliance upon, information contained herein. This information relates only to the product designated here and does not relate to its use in combination with other material or in any other process. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

**END OF MSDS**