SAFETY DATA SHEET

SECTION 1 - MANUFACTURER/PRODUCT IDENTIFICATION:

PRODUCT IDENTITY: GLASSPRO WATER SOLUBLE FLUX (CAT. # 5001-5002-5003)

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

SECTION 2 - HAZARDS IDENTIFICATION:

Section 2.1: Hazard Classification:

DANGER! THIS PRODUCT IS CORROSIVE TO THE EYES. SKIN AND RESPIRATORY TRACT IT IS TOXIC IF INHALED OR SWALLOWED



Corrosive Causes serious skin and eve injury Causes lung damage if inhaled



Harmful if swallowed Harmful in contact with skin Harmful if inhaled

PRECAUTIONARY INFORMATION:

CAUSES SKIN AND EYE CHEMICAL BURNS. BREATHING MIST AND VAPORS CAN CAUSE RESPIRATORY TRACT IRRITATION OR BURNS. INGESTION OF LARGE AMOUNTS CAN CAUSE DIGESTIVE TRACT CHEMICAL BURNS, NAUSEA AND VOMITING.

Prevent eye contact and prolonged skin contact. Utilize appropriate protective clothing and eye and skin protection. Avoid the generation and inhalation of dust and mist. Wear appropriate respiratory protection if dust/mist levels exceed exposure limits. Do not eat, drink or use tobacco products when there is potential exposure to this material. Wash hands thoroughly after handling. Prevent material from becoming airborne. See additional information on the SDS for further details regarding the safe use of this product.

Section 2.2 Label Information:

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





Signal Word: DANGER

Hazardous Components: Glycerin

Hydrochloric Acid

HAZARD STATEMENT: Corrosive upon contact with eyes, skin, and the respiratory system.

Can cause irritation and chemical burns.

Ingestion can cause kidney damage.

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/clothing), safety glasses or goggles and an appropriate respirator.

EMERGENCY INFORMATION:

Eye Contact: Rinse with warm potable water for 15 minutes.

Skin Contact: Remove contaminated clothing and wash affected area.

Inhalation: Exit to fresh air. Support breathing as needed. Ingestion: Rinse mouth. Drink milk or water if conscious.

Contact emergency personnel if medical issues need further treatment.

HMIS Health = 3Flammability = 0 Reactivity =1 PPE = E

HMIS=Hazardous Material Information System

PPE = E means safety glasses, protective gloves and

appropriate respirator.

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SECTION 3 – HAZARDOUS INGREDIENTS INFORMATION:

This product contains material that may be hazardous when airborne as a particulate. This material is also hazardous upon contact with eyes, skin and the respiratory system.

HAZARDOUS COMPONENTSa:

(Specific Chemical Identity;

Common Name)	CAS Number ^b SARA	C OSHA PEL ^d	ACGIH TLV ^e	NOTES As Mist	PERCENT
Glycerin (1,2,3-Propanetriol)	56-81-5	5 mg/m ³ 15 mg/m ³	NA	Respirable Total Particulate	87.5
Hydrochloric Acid	7647-01-1 X	3	2 ppm (Ceiling)		3.7-5.0

Notes:

- a. The term "Hazardous" is defined in the Occupational Safety and Health Administration (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.
- b. The CAS Number designation is the Chemical Abstract Service Number. A CAS number is assigned to each individual chemical.
- c. An asterisk (*) indicates a toxic chemical subject to Environmental Protection Agency (EPA) reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (SARA) and 40 CFR Part 372.
- d. These permissible exposure limits (PELs) are based on OSHA's rulemaking (29 CFR 1910 Subpart Z) adopted in 1971 and are the current regulatory limits, unless otherwise noted. These values are reported as milligrams of contaminant per cubic meter of air (mg/m³).
- e. These values are based on the American Conference of Governmental Industrial Hygienists (ACGIH) 2010 TLVs.
- f. Approximate percent by weight values. The amount of each ingredient in this product is confidential and deemed proprietary. Please contact the manufacturer for detailed information.

SECTION 4 - FIRST AID PROCEDURES:

Eyes: Hold eyelids apart and flush eyes with plenty of warm water potable 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 for at least 15 minutes.

If redness or irritation develops, seek medical attention. Discard or decontaminate clothing before reuse.

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

persist, seek medical attention.

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 no 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 5 - FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT (Method Used): This product is nonflammable and will not support combustion. Significant

>390°F (>199°C) airborne concentrations of particulate can create flammable/explosive conditions.

FLAMMABLE LIMITS: LEL: NA UEL: NA

AUTOIGNITION TEMPERATURE NA

PROCEDURES:

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire including carbon dioxide,

dry chemical, foam, halon, or water mist. Neutralize with soda ash or slaked lime.

SPECIAL FIRE FIGHTING Wear appropriate protection for the surrounding fire. When fighting chemical fires

wear self-contained breathing apparatus and full protective chemical resistant clothing. Do not release runoff to sewers and waterways. Cool tanks with water

spray until well after fire is out.

UNUSUAL FIRE AND EXPLOSION HAZARDS: When subjected to heat and flames, toxic gases such as acrolein,

hydrogen, carbon dioxide and carbon monoxide may be released.

SECTION 6 - ACCIDENTAL RELEASE MEASURES:

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

SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND USE:

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. **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 8- 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 an 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 9 - PHYSICAL/CHEMICAL CHARACTERISTICS:

BOILING POINT: ND VAPOR DENSITY (Air = 1) >1 (Air=1)

MELTING POINT: ND VAPOR PRESSURE (mm Hg): NA

SPECIFIC GRAVITY: Less than 1.5 (H₂O = 1) EVAPORATION RATE

Bulk Density: NA (Butyl Acetate = 1): NA pH: SOLUBILITY IN WATER: Miscible

APPEARANCE AND ODOR: Clear colorless liquid with mild odor.

	GLASSPRO WATER SOLUBLE FLUX 01/06/15								
SECTION 10 – STABILITY AND REACTIVITY:									
STABILITY:	Stable:		Х	Unstable:					
Conditions to Avoid:	Contact with metals produces hydrogen gas, which can form flammable or explosive								
		mixtures in air. Will generate heat when mixed with alkalis. Reaction with sulphides, phosphides, cyanides, acetylides, fluorides, silicates, and carbides, releases flammable							
	ater.	Teleases liaiti	IIIabic						
INCOMPATIBILITY (Materi	•	d): Strong oxidizers	s, strong a	icids, strong alkal	is, sulph	•			
			carbides, silicates and metals. Always test the compatibility of materials before mixing or storing together.						
HAZARDOUS POLYMERIZ	ΔΤΙΟΝ:	May Occur:	r storing to	•	Will No	ot Occur:	X		
Conditions to Avoid:	Alloit.	None known.				——————————————————————————————————————			
DECOMPOSITION PRODUCTS:			Acrolein, hydrogen gas, carbon dioxide and carbon monoxide.						
SECTION 11 - HEAL	TH HAZA								
ROUTE(S) OF ENTRY:		Skin/Eye		Skin					
` '	alation:	Yes Contact:	Yes	Absorption:	No	Ingestion:	Unlikely		
HEALTH HAZARDS (Acute	and Chror	nic):							
Acute (Short-Term) Effects	<u>):</u>								
Eye and skin contact: Corrosiv									
Symptoms of eye contact include pain, redness in the eyes, blurred vision and tissue damage.									
Symptoms of skin contact many include pain, redness and tissue damage.									
Inhalation: Inhalation of significant quantities of mist or vapor may damage the respiratory tract Symptoms can include labored breathing, sore throat and coughing. Symptoms can be delayed. Ingestion: Swallowing large amounts can irritate or burn the mouth, gastrointestinal tract and may be fatal.									
Systemic Effects: Ingestion car									
Chronic (Long-Term) Effect									
Repeated and prolonged inhal	ation of mist	and vapors may caus	se impaire	d lung function in	cluding i	rritation of the	nose,		
throat and respiratory tract. Frequent or prolonged contact	may irritate t	the skin cause a skin	rash (der	matitie) dry the s	kin and	damage the e	VAS		
Reproductive or developmental	-		•	• •		•	•		
Enforcement Act of 1986 (Prop									
present in trace amounts.	00.001.007.00	or o	to oddoo i	op. oddo o o o		3731, 4.331	nay 50		
CARCINOGENICITY: NTF	:	NO IARC:	NC	OSHA RE	EGULA	TED:	NO		
* * This product does not c									
(NTP) Annual Report on	Carcinogens	s, by the International	Agency fo	or Research on C	ancer (I	ARC) and by 0	OSHA.		
** This product does not co cause cancer.	ontain or prod	duce a chemical know	n to the St	ate of California a	nd other	states, if appl	icable, to		
SIGNS AND SYMPTOMS C	F EXPOSU	JRE:							
Skin, eye and respiratory tract irritation or damage. Skin may redden with pain. Eyes will burn. Will irritate or burn the respiratory tract if inhaled. May irritate or burn the intestinal tract if ingested. Ingestion may damage kidneys.									
MEDICAL CONDITIONS AC	•		_	-		-			
Skin, eve and reeniratory tract ailments									

Skin, eye and respiratory tract ailments.

SECTION 12 – ECOLOGICAL INFORMATION:

Toxicity: No further relevant information is available.

SECTION 13 - DISPOSAL:

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and/or federal regulations. Consult an 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)

SECTION 14 - 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 15 - REGULATORY INFORMATION:

OSHA Hazard Communication Standard 29 CFR 1919.1000

OSHA PELs 29 CFR 1910.1000

EPA SARA Section 313 and 40 CFR Part 372

EPA Waste Disposal Regulations

California Proposition 65

SECTION 16 - OTHER INFORMATION:

This Safety Data Sheet (SDS) was prepared to comply with the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS). The SDS also complies with the OSHA Hazard Communication Standard (29 CFR 1910.1200).

The information contained within this SDS is based on data believed to be correct and reliable. All information appearing within this SDS 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 of sufficiency. No guarantee or warranty is expressed or implied regarding the accuracy of this data and information contained herein. 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.

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