



Safety Data Sheet

SDS ID: Stock Code MT

Revision date: March 1, 2019

Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: "TALON" Super Soft Stainless Plumber's Putty

Synonyms: None

Chemical family: N/A

Producer: J.C. Whitlam Manufacturing Company
200 West Walnut Street
P.O. Box 380
Wadsworth, Ohio 44282-0380
www.icwhitlam.com

Telephone: 330-334-2524 Available during normal business hours

Emergency: 330-334-2524 Available during normal business hours

Section 2. HAZARDS IDENTIFICATION

Precautionary Statements: Observe good industrial hygiene practices.
Wash hands after handling.
Store away from incompatible materials.
Dispose of waste and residues in accordance with local authority requirements.

Hazardous Statement: None

Inhalation: Prolonged inhalation may be harmful.

Ingestion: Expected to be a low ingestion hazard.

Skin Contact: No adverse effects due to skin contact are expected.

Eye Contact: Direct contact with eyes may cause temporary irritation.

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

Material information:

Name	CAS No.	Weight %
Limestone	1317-65-3	60-90
Fats and Glyceridic Oil	68991-31-1	5 - 30
Crystalline Silica (Quartz)	14808-60-7	< 1

***Note:** The above weight percentages are represented in ranges as estimates. Due to variation among production batches, component percentages may vary.

Section 4. FIRST AID MEASURES

- Inhalation:** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
- Skin contact:** Rinse with water/shower. Get medical attention if irritation develops and persists.
- Ingestion:** Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
- Eye contact:** Rinse with water. Get medical attention if irritation develops and persists.

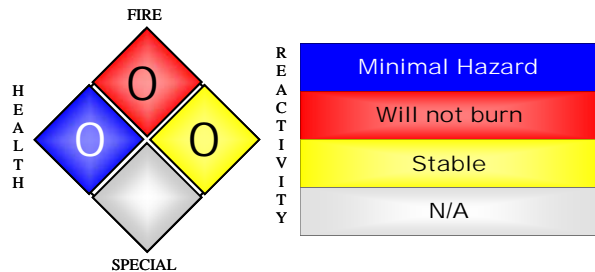
Section 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards: During fire, gases hazardous to health may be formed.

Special protective equipment/instructions for firefighters: Full protective equipment including self-contained breathing apparatus should be used. Use water spray to cool unopened containers. Use standard firefighting procedures and consider the hazards of other involved materials.

	NFPA rating:	HMIS rating:
Health:	0	0
Flammability:	0	0
Instability/reactivity:	0	0
Other:	N/A	N/A (PPE)



Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Keep unnecessary personnel away. For personal protection see Section 8.
Large Spill:	No data available.
Methods for Containment and Clean up	Stop the flow of material, if this is without risk. Following product recovery, flush area with water. Avoid discharge into drains, water courses or onto the ground.

Section 7. HANDLING AND STORAGE

Handling:	Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe the dust.
Storage:	Keep containers closed after use. Store away from incompatible materials.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Name	CAS No.	ACGIH® TLV® Exposure Limits:	Federal OSHA PELs	OSHA PELs 1989 ^c
Limestone	1317-65-3	N/A	N/A	N/A
Crystalline Silica	14808-60-7	N/A	N/A	N/A

All exposure limits listed are 8-hour time weighted average (TWA) — except where noted otherwise.

^A Time Weighted Average (TWA) is an average exposure over the course of an 8-hour work shift.

^B A Short Term Exposure Limit TWA over the course of 15 minutes.

PEL — Permissible Exposure Limit is the maximum 8-hour TWA concentration of a chemical that a worker may be exposed to under Occupational Safety and Health Administration (OSHA) regulations.

^C Federal OSHA 1989 PELs were vacated but are in use and enforced by many state OSHA plans.

Engineering measures: Good ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.

Skin and body protection: Wear protective gloves and synthetic apron or standard work clothes.

Eye protection: Wear safety spectacles with side shields, face shield or goggles.

Hygiene measures: Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove contaminated clothing and launder before reuse.

Other precautions: N/A

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Cream
Physical state (solid/liquid/gas):	Putty
Substance type (pure/mixture):	Mixture
Color:	Cream
Odor:	Slight
Molecular weight:	Not Available
pH:	Not Applicable
Boiling point/range (5-95%):	Not Available
Melting point/range:	Not Available
Decomposition temperature:	Not Available
Specific gravity:	Not Available
Vapor density:	>1(AIR = 1)
Vapor pressure:	Not available
Evaporation rate (Butyl acetate= 1):	<1
Flash point, method used:	>212°F (> 100.0°C)
Water solubility:	Insoluble
VOC Content:	20 grams/liter
Auto-ignition temperature:	Not Available
Flammable limits in air — lower (%):	2.0
Flammable limits in air — upper (%):	Not Available

Section 10. STABILITY AND REACTIVITY

Reactivity:	No data available
Stability:	Stable under recommended storage conditions.
Possibly hazardous reactions:	No data available
Conditions to avoid:	Contact with incompatible materials.
Incompatible Materials:	Acids. Flourine.
Hazardous decomposition products:	None known.
Polymerization:	Will not occur.

Section 11. TOXICOLOGICAL INFORMATION

Acute toxicity: Not available

Product information:

Name	CAS No.	Inhalation:	Dermal:	Oral:
Limestone	1317-65-3	N/A	N/A	N/A
Crystalline Silica	14808-60-7	N/A	N/A	NA

Chronic toxicity: Not available.

Carcinogenicity: In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibers, 1997, Vol. 68, IARC, Lyon, France.) Risk of cancer cannot be excluded with prolonged exposure.

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity effects:	None
Persistence	None
Degradability:	Not available.

Section 13. DISPOSAL CONSIDERATIONS

Cleanup considerations: Disposal of this material must be done in accordance with federal, state and/or local regulations.

Section 14. TRANSPORT INFORMATION

Not regulated as a dangerous good by DOT, IATA and IMDG.

Section 15. REGULATORY INFORMATION

US Federal Regulations:

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard – No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Chemical

No

SARA 313 (TRI reporting)

Not regulated.

Other Federal Regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US State Regulations:

US. Massachusetts RTK - Substance List

Crystalline silica (Quartz) (CAS 14808-60-7)

Limestone (CAS 1317-65-3)

US. New Jersey Worker and Community Right-to-Know Act

Crystalline silica (Quartz) (CAS 14808-60-7)

Limestone (CAS 1317-65-3)

US. Pennsylvania Worker and Community Right-to-Know Law

Crystalline silica (Quartz) (CAS 14808-60-7)

Limestone (CAS 1317-65-3)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Crystalline silica (Quartz) (CAS 14808-60-7)

Section 16. OTHER INFORMATION

The information and recommendations contained herein are based upon tests, data, and information resources believed to be reliable. However, the J.C. Whitlam Manufacturing Company, Inc., and its related operations or divisions (Whitlam) do not guarantee the accuracy or completeness, nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of goods, the merchantability of the goods or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage may be required. Whitlam assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of this data. No warranty against infringement of any patent, copyright or trademark is made or implied.



GHS SAFETY DATA SHEET

WELD-ON® P-68™ Low VOC Primer for PVC and CPVC Plastic Pipe

Date Revised: **DEC 2011**
Supersedes: **OCT 2010**

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WELD-ON® P-68™ Low VOC Primer for PVC and CPVC Plastic Pipe
PRODUCT USE: Low VOC Primer for PVC and CPVC Plastic Pipe
SUPPLIER: **MANUFACTURER:** IPS Corporation
 17109 South Main Street, Carson, CA 90248-3127
 P.O. Box 379, Gardena, CA 90247-0379
 Tel. 1-310-898-3300

EMERGENCY: Transportation: CHEMTEL Tel. 800.255-3924, 813-248-0585 (International) **Medical:** Tel. 800.451.8346, 760.602.8703 3E Company (International)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Health		Environmental		Physical	
Acute Toxicity:	Category 4	Acute Toxicity:	None Known	Flammable Liquid	Category 2
Skin Irritation:	Category 3	Chronic Toxicity:	None Known		
Skin Sensitization:	NO				
Eye:	Category 2B				

GHS LABEL:



OR



Signal Word:
Danger

WHMIS CLASSIFICATION: CLASS B, DIVISION 2

Hazard Statements

H225: Highly flammable liquid and vapor
 H319: Causes serious eye irritation
 H332: Harmful if inhaled
 H335: May cause respiratory irritation
 H336: May cause drowsiness or dizziness
 EUH019: May form explosive peroxides

Precautionary Statements

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
 P261: Avoid breathing dust/fume/gas/mist/vapors/spray
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P403+P233: Store in a well ventilated place. Keep container tightly closed
 P501: Dispose of contents/container in accordance with local regulation

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS#	EINECS #	REACH	CONCENTRATION
			Pre-registration Number	% by Weight
Tetrahydrofuran (THF)	109-99-9	203-726-8	05-2116297729-22-0000	20 - 35
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	05-2116297728-24-0000	15 - 25
Cyclohexanone	108-94-1	203-631-1	05-2116297718-25-0000	10 - 30
Acetone	67-64-1	200-662-2	05-2116297713-35-0000	25 - 40

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.
 * Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).
 # indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity.

SECTION 4 - FIRST AID MEASURES

Contact with eyes: Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.
Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice.
Inhalation: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.
Ingestion: Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately.

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Halon, water fog. **HMIS** **NFPA** **0-Minimal**
Unsuitable Extinguishing Media: Water spray or stream. **Health** **2** **2** **1-Slight**
Exposure Hazards: Inhalation and dermal contact **Flammability** **3** **3** **2-Moderate**
Combustion Products: Oxides of carbon and smoke **Reactivity** **0** **0** **3-Serious**
PPE **B** **4-Severe**

Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep away from heat, sparks and open flame.
 Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment.
 Prevent contact with skin or eyes (see section 8).
Environmental Precautions: Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.
Methods for Cleaning up: Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel.
Materials not to be used for clean up: Aluminum or plastic containers

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid breathing of vapor, avoid contact with eyes, skin and clothing.
 Keep away from ignition sources, use only electrically grounded handling equipment and ensure adequate ventilation/fume exhaust hoods.
 Do not eat, drink or smoke while handling.
Storage: Store in ventilated room or shade below 44°C (110°F) and away from direct sunlight.
 Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.
 Follow all precautionary information on container label, product bulletins and solvent cementing literature.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL:
	Tetrahydrofuran (THF)	50 ppm	100 ppm	200 ppm	
	Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	
	Cyclohexanone	20 ppm	50 ppm	50 ppm	
	Acetone	500 ppm	750 ppm	1000 ppm	

Engineering Controls: Use local exhaust as needed.
Monitoring: Maintain breathing zone airborne concentrations below exposure limits.
Personal Protective Equipment (PPE):
Eye Protection: Avoid contact with eyes, wear splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, etc. as may be appropriate for the exposure.
Skin Protection: Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion.
 Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application practices and procedures are used for making structural bonds.
Respiratory Protection: Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above.
 With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.



GHS SAFETY DATA SHEET

WELD-ON® P-68™ Low VOC Primer for PVC and CPVC Plastic Pipe

Date Revised: DEC 2011
Supersedes: OCT 2010

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear or purple, thin liquid	Odor Threshold:	0.88 ppm (Cyclohexanone)
Odor:	Ethereal	Boiling Range:	56 °C (133 °F) to 156 °C (313 °F)
pH:	Not Applicable	Evaporation Rate:	> 1.0 (BUAC = 1)
Melting/Freezing Point:	-108.5 °C (-163.3 °F) Based on first melting component: THF	Flammability:	Category 2
Boiling Point:	56 °C (133 °F) Based on first boiling component: Acetone	Flammability Limits:	LEL: 1.1% based on Cyclohexanone UEL: 12.8% based on Acetone
Flash Point:	-20 °C (-4 °F) TCC based on Acetone	Vapor Pressure:	190 mm Hg @ 20 °C (68 °F) Acetone
Specific Gravity:	0.842 @23 °C (73 °F)	Vapor Density:	>2.0 (Air = 1)
Solubility:	Solvent portion soluble in water. Resin portion separates out.	Other Data: Viscosity:	Water-thin
Partition Coefficient n-octanol/water:	Not Available		
Auto-ignition Temperature:	321 °C (610 °F) based on THF		
Decomposition Temperature:	Not Applicable		
VOC Content:	When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: ≤ 550 g/l.		

SECTION 10 - STABILITY AND REACTIVITY

Stability:	Stable
Hazardous decomposition products:	None in normal use. When forced to burn, this product gives off oxides of carbon and smoke.
Conditions to avoid:	Keep away from heat, sparks, open flame and other ignition sources.
Incompatible Materials:	Oxidizers, strong acids and bases, amines, ammonia

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

Acute symptoms and effects:

Inhalation: Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.

Eye Contact: Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid.

Skin Contact: Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.

Ingestion: May cause nausea, vomiting, diarrhea and mental sluggishness.

Chronic (long-term) effects: None known to humans

Toxicity:

	LD ₅₀	LC ₅₀
Tetrahydrofuran (THF)	Oral: 2842 mg/kg (rat)	Inhalation 3 hrs. 21,000 mg/m ³ (rat)
Methyl Ethyl Ketone (MEK)	Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit)	Inhalation 8 hrs. 23,500 mg/m ³ (rat)
Cyclohexanone	Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit)	Inhalation 4 hrs. 8,000 PPM (rat)
Acetone	Oral: 5800 mg/kg (rat)	Inhalation 50,100 mg/m ³ (rat)

Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Established	Not Established	Not Established	Not Established	Not Established	Not Established

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	None Known
Mobility:	In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of ≤ 550 g/l.
Degradability:	Biodegradable
Bioaccumulation:	Minimal to none.

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name: Flammable Liquid, n.o.s. (Acetone, Tetrahydrofuran)

Hazard Class: 3

Secondary Risk: None

Identification Number: UN 1993

Packing Group: PG II

Label Required: Class 3 Flammable Liquid

Marine Pollutant: NO

EXCEPTION for Ground Shipping

DOT Limited Quantity: Up to 1L per inner packaging, 30 kg gross weight per package.

Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D".

TDG INFORMATION

TDG CLASS:	FLAMMABLE LIQUID 3
SHIPPING NAME:	Flammable Liquid, n.o.s. (Acetone, Tetrahydrofuran)
UN NUMBER/PACKING GROUP:	UN 1993, PG II

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information:	Highly Flammable, Irritant	Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia
Symbols:	F, Xi	AICS, Korea ECL/TCCL, Japan MITI (ENCS)
Risk Phrases:	R11: Highly flammable. R20: Harmful by inhalation. R36/37: Irritating to eyes and respiratory system.	R66: Repeated exposure may cause skin dryness or cracking R67: Vapors may cause drowsiness and dizziness
Safety Phrases:	S9: Keep container in a well-ventilated place. S16: Keep away from sources of ignition - No smoking. S25: Avoid contact with eyes.	S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S33: Take precautionary measures against static discharges. S46: If swallowed, seek medical advice immediately and show this container or label.

SECTION 16 - OTHER INFORMATION

Specification Information:

Department issuing data sheet:	IPS, Safety Health & Environmental Affairs	All ingredients are compliant with the requirements of the European Directive on RoHS (Restriction of Hazardous Substances).
E-mail address:	<EHSinfo@ipscorp.com>	
Training necessary:	Yes, training in practices and procedures contained in product literature.	
Reissue date / reason for reissue:	12/14/2011 / Updated GHS Standard Format	
Intended Use of Product:	Primer for PVC and CPVC Plastic Pipe	

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

MATERIAL SAFETY DATA SHEET

QUIK-FLO 3 ® SOLDER

SECTION I – PRODUCT INFORMATION

Distributor's name: Allied Rubber & Gasket Company, Inc. – ARGCO
2610 Commerce Way
Vista, Ca 92081

In case of emergency: Call 1-800-424-9300

For information call: (800) 854-1015

Date prepared: 3/25/10

Product name: Quik-Flo 3 Solder

Product Identity: Copper-Tin Soldering Alloys: Chemical Family Soldering Filler Metal

SECTION II – HAZARDOUS CHEMICAL COMPONENTS

Component: Copper CAS Number 7440-50-8 % of Mixture 1.5 – 6
OSHA PEL: Fume: 0.1 mg/M3 (TWA) ACGIH TLV's (1992-93) Fume: 0.2 mg/M3
Dusts and Mists: 1 mg/M3

Component: Tin CAS Number 7440-31-5 % of Mixture Balance
OSHA PEL: Inorganic Compounds ACGIH TLV's: 2.0 mg/M3
And Oxide as SN: 2 mg/M3 **Dusts and Mists:** 1 mg/M3

SECTION III – PHYSICAL DATA

Melting Point: 640° F – 344°C **Appearance and odor:** Blue flowable paste. Slight alcohol odor

% Volatile (by weight): 28 **Specific Gravity (H2O = 1):** 1.3

Solubility in Water: Insoluble **% Volatile organic compounds:** 28

SECTION IV – FIRE AND EXPLOSION DATA

Flash Point : NA

Auto Ignition: NA

Flammability Class: NA

Explosive Limits: NA

Fire and Explosion Hazards: In finely divided forms, this material may ignite when exposed to flame or by reaction with incompatible materials. Fires or explosions involving this material may release emissions of metal or metal oxide fumes. See Section 2 for hazardous components and/or reaction product.

Extinguishing Media: Use dry powder extinguishers only. Do Not Use Water.

Special Fire Fighting Instructions: Use self contained breathing apparatus with full face-piece, operated in pressure-demand or other positive pressure mode.

SECTION V – EXPOSURE EFFECTS AND FIRST AID

Route of Exposure – Inhalation: Inhalation of the components of this material may produce the following:

COPPER: Acute exposure may cause respiratory tract irritation, fever, muscle ache, cough, chills, physical weakness and a metallic taste. Chronic exposure may cause damage to the liver, spleen, pancreas and brain.

TIN: Exposure to tin dust and fumes by inhalation can cause stannosis, a benign pneumoconiosis, as well as possible dyspnea and upper respiratory tract irritation.

FIRST AID PROCEDURES:

Inhalation: If signs and symptoms of toxicity are observed, remove subject from contaminated area, administer oxygen and see medical attention. Keep subject warm and at rest. Perform artificial respiration if breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.

Skin Contact: Skin contact with this material in solid forms is not known to be hazardous. In powdered form, skin contact may produce localized irritation, localized argyria (from silver) and/or skin discoloration and/or dermatitis (from copper).

Eye Contact: Flush with large amounts of water for at least fifteen minutes.

Ingestion: If subject is conscious, induce vomiting either by giving ipecac syrup or by placing finger at back of throat. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Neither copper nor Tin are classified as potential or demonstrated human carcinogens by IARC, NIOSH, NTP, OSHA or ACGIH.

SECTION VI – REACTIVITY AND POLYMERIZATION

Stability: Stable Conditions to Avoid (Stability): Stable at room temperature.

Incompatible Materials: Strong oxidizers, SE, TE, Mg, acetylene, NH₃, HNO₃, azides; ethanol; ethylene imine; CF₃; inorganic and organic peroxides; peroxyformic acid; chlorine; fluorine; permonosulfuric acid; chlorates; CrO₃; Mn and Ca chlorides; CS₂, hydrazine mononitrate,; nitrobenzene, Fe(Co₅); seleninyl bromide.

Hazardous Decomposition Products: Heating to soldering temperatures may liberate oxides of metals as fume. For specific hazardous components and decomposition products, see Section 2.

Conditions to Avoid (Polymerization): NA. **Hazardous Polymerization:** Does not occur.

SECTION VII – SPECIAL PRECAUTIONS

Respiratory Protection: If work place exposure limit(s) of product or any component is exceeded (see Section II), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control engineering or administrative controls should be implemented to reduce exposure.

SECTION VII – SPECIAL PRECAUTIONS - Continued

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other types of safety glasses (consult your safety equipment supplier).

Ventilation: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Protective Gloves: Wear resistant gloves such as neoprene.

Other Equipment: To prevent repeated or prolonged skin contact, wear impervious clothing or boots.

SECTION IX – STORAGE AND HANDLING

Storage and Handling Conditions: Do not store at highly elevated temperatures or in close proximity to incompatible materials (See Section 6).

SECTION X – SHIPPING INFORMATION

Hazard Class: Not controlled by DOT, IATA, ICAO or IMO regulations

Disclaimer

The information contained herein is accurate and reliable as of the date issued to the best of the manufacturer's knowledge. ARGCO doesn't warrant or guarantee its accuracy or reliability and shall not be liable for any loss or damage arising from the use thereof. It is the user's responsibility to satisfy itself that the information offered for its consideration is suitable for its particular use.

END OF MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER'S NAME <i>THE WISEMAN GROUP – MANUFACTURING CHEMISTS</i>	TELEPHONE NO <i>+44 1277 633200</i>
ADDRESS <i>P O BOX 58, HIGH STREET, INGATESTONE, ESSEX. CM4 9DL, ENGLAND</i>	PRODUCT NAME <i>EVERFLUX</i>
FORMULA <i>MIXTURE</i>	GENERAL USE <i>SOLDERING FLUX FOR COPPER, BRASS, TIN & STEEL</i>

SECTION II – HAZARDOUS INGREDIENTS

CHEMICAL PRODUCT & CODE	%	TLV (UNITS)
ZINC CHLORIDE CAS NO 7646-85-7	4	1 mg/m ³
AMMONIUM CHLORIDE CAS NO 12125-02-09	2	10 mg/m ³

SECTION III – PHYSICAL DATA

BOILING POINT (°F)	695 ⁰	SPECIFIC GRAVITY	1.4
VAPOUR PRESSURE (mm Hg)	< 1	PERCENT, VOLATILE BY VOLUME	NIL
VAPOUR DENSITY (AIR = 1)	> 1	EVAPORATION RATE	<< 1
SOLUBILITY IN WATER	> 99%		
APPEARANCE AND ODOR	WHITE, ODOURLESS PASTE		

SECTION IV – FIRE & EXPLOSION HAZARD DATA

FLASH POINT	NON FLAMMABLE
EXTINGUISHING MEDIA	IF INVOLVED IN FORE USE WATER
SPECIAL FIREFIGHTING PROCEDURES	N/A
UNUSUAL FIRE AND EXPLOSION HAZARDS	N/A

SECTION V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	1 mg/M ³ (TWA:8 Hr)
EFFECTS OF OVER EXPOSURE	MAY CAUSE IRRITATION AND INFLAME SKIN AND EYES
EMMERGENCY AND FIRST AID PROCEDURES	EYE CONTACT – IRRIGATE FOR 15 MINUTES UNDER RUNNING COLD TAP, SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS SKIN CONTACT – WASH WITH PLENTY OF SOAP AND WATER INGESTION – DO NOT INDUCE VOMITING, DRINK BICARBONATE OF SODA IN WATER / WASHING SODA IN WATER FOLLOWED BY MILK – SEEK MEDICAL ATTENTION
HMIS RATING	HEALTH 0, FLAMMABILITY 0, REACTIVITY 0

SECTION VI – REACTIVITY DATA

STABILITY	STABLE
INCOMPATABILITY (MATERIALS TO AVOID)	OXIDIZING AGENTS
HAZARDOUS DECOMPOSITION PRODUCTS	BY THERMAL -CO ₂ , CL, NH ₃
HAZARDOUS POLYMERIZATION	NIL

SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILT	SMALL SPILL – WIPE UP, WASH REMAINDER WITH WATER TO DRAIN LARGE SPILL – CONTAIN SPILL, SCRAPE UP FOR RE-USE OR SOAK WITH ABSORBENT MATERIAL, FLUSH REMAINDER WITH WATER
WASTE DISPOSAL METHOD	DISPOSE OF IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS

SECTION VIII – SPECIAL PROTECTION INFORMATION

VENTILATION	NORMAL ROOM VENTILATION, LOCAL EXHAUST IN CONFINED AREAS
SKIN PROTECTION	GLOVES RECOMMENDED TO PROTECT FROM SOLDER BURNS
EYE PROTECTION	FACE VISOR/GOGGLES RECOMMENDED TO PROTECT FROM SOLDER BURNS
OTHER PROTECTIVE EQUIPMENT	EYE WASH, GAS RESPIRATOR IN VERY ENCLOSED AREAS

SECTION IX – SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING PREVENT EYE CONTACT, AVOID SKIN CONTACT, KEEP CONTAINER UPRIGHT
--

OTHER PRECAUTIONS KEEP CONTAINER CLOSED WHEN NOT IN USE, STORE OUT OF REACH OF CHILDREN
--

SECTION X – REGULATORY INFORMATION

OSHA Hazard Status : this product is not considered to be hazardous as defined by the US osha HCS (29 CFR 1910:1200)

UK Manufacturers of Radiators MARC solubility test approved.
Everflux is UK WRAS approved as to effects on water quality.
American Society for Testing Materials (ASTM): Everflux meets ASTM specification B 813
Copper Development Association (CDA): Everflux meets test method 1.0
Everflux is approved for use where US states enforce the Uniform Plumbing Code and/or the International Plumbing Code.

This Material Safety Data Sheet is laid out in accordance and complies with the criteria of the US OSHA Hazard Communication Standard and the Canadian WHMIS Controlled Product Regulations.

SECTION XI – OTHER INFORMATION

The information contained herein is based on data available to us and is accurate and reliable to the best of our knowledge and belief. However, the Wiseman Group makes no representations as to its completeness or accuracy. Information is supplied on condition that persons receiving such information will make their own determination as to its suitability for their purposes prior to use. In no event will the Wiseman Group be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein.

1. Identification

Product identifier Harvey Thread Cutting Oil

Other means of identification

Product code 3335E

Synonyms **Part Numbers –** 016035 016110 016165 016272 016324 016336 016365
016036 016115 016170 016273 016325 016337 016366
016050 016120 016190 016276-W 016326-W 016338 016390
016055 016150 016205 016277 016327 016341 016391
016060 016151 016215 016278 016328 016342 248674
016070 016153 016261 016279 016330 016343 403766
016100 016154 016264 016281 016331 016348 403774
016101 016155 016265 016320 016332 016350 Premier 461020
016102 016157 016266 016321 016333 016351 Premier 461020
016105 016160 016267 016322 016334 016353 Premier 461023
Premier 461024

Recommended use Lubricant for Cutting Threads

Recommended restrictions None Known

Manufacturer/Importer/Supplier/Distributor information

Company Name William H. Harvey Company

Address 4334 South 67th Street
Omaha, NE 68117

Telephone 402-331-1175

E-mail info@oatey.com

Transport Emergency Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)

Emergency First Aid 1-877-740-5015

Contact person MSDS Coordinator

2. Hazard(s) identification

Physical hazards Not Classified.

Health hazards Acute Toxicity Oral Cat 4
Skin Corrosion/Irritation Cat 2B
Eye Damage/Irritation Cat 2B

OSHA defined hazards Not Classified.

Label elements**Hazard symbol****Signal word**

Warning

Hazard statement

Harmful if swallowed. Causes mild skin irritation. Cause eye irritation. May cause respiratory irritation.

Precautionary statement**Prevention**

Keep container tightly closed. Wear protective clothes and eye protection. Wash thoroughly after handling. Avoid breathing fumes, or mist.

Response

IF ON SKIN: Rinse skin with water. Wash contaminated clothing before reuse.

IF SWALLOWED: Call a poison center or doctor if you feel unwell. Rinse Mouth. Do not induce vomiting. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

Storage	Store in a well-ventilated space. Keep cool.
Disposal	Dispose of contents/container in accordance with local regulations.
Hazard(s) not otherwise classified (HNOC)	Used Oil may contain harmful impurities.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Petroleum Hydrocarbon Mixture	64742-65-0	>95

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Ingestion	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Ingestion may result in nausea, vomiting, and or diarrhea.
Most important symptoms/effects, acute and delayed	
Indication of immediate medical attention and special treatment needed.	Immediate medical attention is not required.
General information	Note to physician, treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water in a jet.
Specific hazards arising from the chemical	Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases, oxides of sulfur and phosphorous (smoke). Carbon monoxide.
Special protective equipment and precautions for firefighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Fire fighting equipment/instructions	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Specific methods	None
General fire hazards	None

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Methods and materials for containment and cleaning up	Large Spills: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal. Small Spills: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

7. Handling and storage**Precautions for safe handling**

Use local exhaust ventilation if there is risk of inhalation of vapors, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials to prevent fires. Put on appropriate personal protective equipment (see section 8 of SDS). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection**Occupational exposure limits****US. ACGIH Threshold Limit Values**

Components	Type	Value
Oil Mist, Mineral	TLV or PEL	5 mg/m3

US OSHA Permissible Exposure Limits

Components	Type	Value
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Biological limit values

Data Not available.

Appropriate engineering controls

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection**Hand**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Other

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Thermal hazards

None.

General hygiene considerations

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. Physical and chemical properties**Appearance****Physical state**

Liquid

Form

Liquid

Color

Clear, light amber

Odor

Slight hydrocarbon

Odor threshold

Not available.

pH	Not applicable
Melting point/freezing point	No data available.
Initial boiling point and boiling range	Not determined
Flash point	> 340 °F (> 171°C)
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	Not available
Flammability limit – upper (%)	Not available
Explosive limit - lower (%)	Not available
Explosive limit - upper (%)	Not available
Vapor pressure	Not applicable
Vapor density	Not applicable
Relative density	0.91
Solubility(ies)	
Solubility (water)	Negligible
Partition coefficient (n-octanol/water)	>6 based on similar products
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
Viscosity, kinematic	27.5 – 33.5 mm ² /s @ 40 °C
Other information	
VOC (Weight %)	< 1% by weight, < 10 g/L

10. Stability and reactivity

Reactivity	The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph..
Chemical stability	The product is stable.
Possibility of hazardous reaction	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Extreme temperature and direct sunlight.
Incompatible materials	Strong Oxidizing Agents.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Mist from processing.
Skin contact	Skin contact.
Eye contact	Eye contact.
Ingestion	No known significant effects or critical hazards.
Symptoms related to the physical, chemical and toxicological characteristics	No specific data.

Information on likely routes of exposure

Acute Toxicity

Components	Species	Results
------------	---------	---------

Skin corrosion/irritation	May cause skin irritation after prolonged exposure. Prolonged exposure or repeated exposure without proper cleaning can clog pores of the skin.
Serious eye damage/eye irritation	Expected to be slightly irritating.
Respiratory or skin sensitization	
Respiratory sensitization	Inhalation of vapors or mists may cause irritation to the respiratory system.
Skin sensitization	This product is not expected to cause skin irritation.
Germ cell mutagenicity	Not considered a mutagenic hazard
Carcinogenicity	No component of this product is identified as a probable, possible, or confirmed carcinogen by IARC, NTP, Monographs, or OSHA.

Reproductive toxicity	No known significant effects or critical hazards.
Specific target organ toxicity	
Single exposure	Not expected to be a hazard.
Repeated exposure	Not expected to be a hazard.
Aspiration Hazard	Contains Distillates (petroleum), hydrotreated – Which is a category 1 Aspiration Hazard. The likely hood of aspirating the product in this form is very low due to the high viscosity.
Chronic effects	Not Classified.
Further information	Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and may present risks to health and the environment on disposal. Used oil should be handled with caution and skin contact should be avoided when possible.

12. Ecological information

Ecotoxicity

Product/ingredient name	Results	Species	Exposure
Persistence and degradability	Not Available.		
Bio accumulative potential	Not Available.		
Mobility in soil	Liquid under most conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.		
Other adverse effects	No known significant effects of critical hazards.		

13. Disposal considerations

Disposal instructions	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Local disposal regulations	Not Applicable
Hazardous waste code	Not Applicable

14. Transportation information

DOT	Not Regulated
UN number	
UN Proper Shipping Name	
Transportation Hazard classes	
Packing group	
IATA	Not Regulated
UN number	
UN Proper Shipping Name	
Transportation Hazard classes	
Packing group	
IMDG	Not Regulated
UN number	
UN Proper Shipping Name	
Transportation Hazard classes	
Packing group	
Environmental hazards	
Marine pollutant	

15. Regulatory information

International Inventories All the substances contained in this product are listed or exempted from listing in the following inventories:
U.S.A. (TSCA)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	no
Chronic Health Hazard	no
Fire Hazard	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

16. Other information, including date of preparation or last revision

Issue Date 12-May-2015

Revision Date -

Version # 01

HMIS Rating Health: 1
Flammability: 1
Physical Hazards: 0

Disclaimer William H. Harvey, an Oatey Affiliate cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

MATERIAL SAFETY DATA SHEET: BEESWAX

SECTION 1: CHEMICAL PRODUCT & COMPANY INFORMATION

APPLICABLE PART #: **OP9025, OP9026, OP9067, OP9067K** IDENTITY: **Beeswax (White or Yellow, Refined or Commercial)**
OP9068, OP9068K, OP9069K

SUPPLIER: **Universal Photonics, Inc.**
495 West John Street
Hicksville, NY 11801

FOR INFORMATION CALL
CUSTOMER SERVICE **(516) 935-4000**
DATE PREPARED: **July 23, 2012**

EMERGENCY TELEPHONE NUMBER: **1.866.519.4752** **3-E COMPANY - ACCT # 3665**

SECTION 2: COMPOSITION INFORMATION

PHYSICAL COMPONENTS	WT %	ACGIH TLV	OSHA PEL
Esters	70	NA	NA
Hydrocarbons	13	NA	NA
Fatty Acids	12	NA	NA
Fatty Alcohol	4	NA	NA
Other	1	NA	NA

SECTION 3: HAZARDS IDENTIFICATION

ROUTES OF ENTRY: NA

EYE: NA

SKIN CONTACT: NA

INGESTION: NA

INHALATION: NA

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NA

SECTION 4: FIRST AID MEASURES

EYES: **NA**

SKIN: **Molten wax will cause burn when in contact with skin. Flush with cold water and seek medical attention.**

INHALATION: **If overcome by fumes. Remove from exposure and call a physician**

INGESTION: **NA**

MATERIAL SAFETY DATA SHEET: BEESWAX

SECTION 5: FIRE FIGHTING MEASURES

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: **400°F**

FIRE & EXPLOSION HAZARD: **Potential combustible dust if flaked or powdered.**

EXTINGUISHING MEDIA: **Dry chemical and CO₂ for small fires. Use foam for large fires.**

FIRE FIGHTING PROCEDURES: **Move exposed containers from fire area if possible. Use water to keep fire exposed containers cooled. Fire fighters should wear proper equipment and self-contained breathing apparatus with full faceplate.**

SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO TAKE IF MATERIAL IS SPILLED OR RELEASED: **Caution. Combustible. Spilled material is slippery.**

Soak up with absorbent materials such as paper, rags or sawdust; sweep up solidified materials.

SECTION 7: HANDLING & STORAGE

HANDLING: **Use with caution around heat. Sparks, static electricity and open flame.**

STORAGE: **Store in cool dry well ventilated storage area. Do not store near oxidizing agents or strong acids.**

SHELF LIFE: **2 years under normal conditions.**

SECTION 8: PERSONAL PROTECTION AND EXPOSURE CONTROLS

RESPIRATORY PROTECTION: **Use a respirator if handling molten product for fumes.**

SKIN: **Apron or lab coat.**

HANDS: **Gloves**

EYE PROTECTION: **Avoid contact with eyes. Wear splash goggles or face shield.**

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT	> 500°F	SPECIFIC GRAVITY	0.92 – 0.97
pH	NA	MELTING POINT	143 - 149°F
VAPOR DENSITY	N/A	FLASH POINT	> 464°F
SOLUBILITY IN WATER	Insoluble	APPEARANCE & ODOR	Solid wax. White/Yellow, odor characteristic of wax.

MATERIAL SAFETY DATA SHEET: BEESWAX

SECTION 10: STABILITY & REACTIVITY

STABILITY: **Stable.**

INCOMPATIBILITY: **Avoid excessive heating, strong oxidants and strong acids.**

SECTION 11: TOXICOLOGICAL INFORMATION

INGESTION: **LD₅₀ 5g/kg**

SKIN IRRITATION: **o irritation potential**

EYE IRRITATION: **ild irritation potential**

SECTION 12: ECOLOGICAL INFORMATION

Not hazardous under OSHA Hazard Communications. Complies with 29 CFR 1910.1200 nor does it contain any chemicals listed in Proposition 65 of the California Regulatory Notice Register 93 Vol. No. 53-Z

SECTION 13: DISPOSAL INFORMATION

DISPOSAL METHOD: **Keep out of surface waters, sewers, and waterways entering or leading to surface waters. Dispose in an appropriate manner that complies with local and federal regulations.**

SECTION 14: TRANSPORTATION INFORMATION

N/A

SECTION 15: REGULATORY INFORMATION

CTFA/INCI Name: **Beeswax**
CAS#: **8006-40-4 White Beeswax**
CAS#: **8012-89-3 Yellow Beeswax**
Japanese Name Source: **Beeswax/JSCI**
EEC #: **901**
FDA Approved Under Regulation 21 CFR 184.1973 and 21 CFR 184.1975

SECTION 16: OTHER INFORMATION

WHILE UNIVERSAL PHOTONICS, INC. BELIEVES THAT THE DATA AND INFORMATION CONTAINED HEREIN ARE FACTUAL AND THE OPINIONS ARE THOSE OF QUALIFIED EXPERTS, THEY ARE NOT TO BE TAKEN AS A WARRANTY OR REPRESENTATION FOR WHICH UNIVERSAL PHOTONICS, INC. ASSUMES ANY LEGAL RESPONSIBILITY. THEY ARE OFFERED SOLELY FOR THE CONSIDERATION, INVESTIGATION AND VERIFICATION BY THE USER. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS PRODUCT, DATA AND INFORMATION WITH APPLICABLE LAWS AND REGULATIONS.waxbees.07.12.ms

MATERIAL SAFETY DATA SHEET

HMIS CODES:

H	F	R	P
0	2	0	A

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administrator
(Non-Mandatory Form)
Form Approved OMB No. 1218-0072

IDENTITY (AS USED ON LABEL AND LIST):
"BLUE MAGIC" IG
INDUSTRIAL GRADE PIPE THREAD COMPOUND

NOTE: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name:
J.C. WHITLAM MANUFACTURING COMPANY

Emergency Telephone Number:
(330) 334 - 2524

Address (Number, Street, City, State, and ZIP Code):
200 WEST WALNUT STREET

Telephone Number for Information:
(330) 334 - 2524

P.O. BOX 380

Date Prepared: January 24, 2014

WADSWORTH, OHIO 44282-0380

Signature of Preparer (optional):

Section II - Hazardous Ingredients/Identity Information

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY: COMMON NAME(S))	OSHA PEL	ACGIH TLV	OTHER LIMITS Recommended	% (optional)
ISOPROPYL ALCOHOL [CAS#67-63-0]	400	400	N/A	5 - 10
GLYCOL ETHER EB [CAS#111-76-2]	50	25	N/A	13 - 18

Section III - Physical/Chemical Characteristics

Boiling Point:	N/A	Specific Gravity (H2O =1):	1.41
Vapor Pressure (mm Hg):	.88	Melting Point:	N/A
Vapor Density (AIR = 1):	> 1	Evaporation Rate (Butyl Acetate = 1):	.6
Solubility in Water:	SLIGHT	VOC Content:	310 g/l

Appearance and Odor: BLUE PASTE - MILD ODOR

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used): 82°F (28°C) ASTM METHOD D93-80	Flammable Limits: 921°F (494°C) IGNITION TEMPERATURE	LEL: 0.9%	UEL: 6.0%
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Extinguishing Media: CARBON DIOXIDE OR DRY CHEMICAL OR WATER.

Special Fire Fighting Procedures: NONE

Unusual Fire and Explosion Hazards: CONTACT WITH STRONG OXIDIZERS MAY CAUSE FIRES OR EXPLOSIONS. CARBON MONOXIDE MAY BE RELEASED.

Section V - Reactivity Data	“BLUE MAGIC” INDUSTRIAL GRADE PIPE THREAD COMPOUND	IG
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Stability:	Unstable:		Conditions to Avoid: N/A
	Stable:	X	

Incompatibility (Materials to Avoid):
LIQUID OXYGEN SYSTEMS, LIQUID SODIUM, GASEOUS FLUORINE, STRONG OXIDIZERS.

Hazardous Decomposition or Byproducts:

Hazardous Polymerization:	May Occur:		Conditions to Avoid: N/A
	Will Not Occur:	X	

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? YES	Skin? YES	Ingestion? YES
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Health Hazards (Acute and Chronic): N/A

Carcinogenicity:	NTP? NO	IARC Monographs? NO	OSHA Regulated? NO
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Signs and Symptoms of Exposure:
INHALATION: POSSIBLE DIZZINESS IF USED IN CONFINED AREA. SKIN: MAY CAUSE MILD IRRITATION TO SENSITIVE SKIN.

Medical Conditions Generally Aggravated by Exposure: NONE KNOWN

Emergency and First Aid Procedures:
EYE CONTACT: FLUSH EYES WITH WATER. SKIN CONTACT: WASH SKIN WITH SOAP AND WATER. WASH CLOTHING BEFORE REUSE. INHALATION: MOVE TO WELL VENTILATED AREA. INGESTION: CALL PHYSICIAN.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled:
NORMAL GOOD HOUSEKEEPING PROCEDURES.

Waste Disposal Method:
DISPOSE OF ACCORDING TO FEDERAL, STATE, AND LOCAL REGULATIONS.

Precautions to Be Taken in Handling and Storing:
STORE AWAY FROM HEAT OR OPEN FLAME. CLOSE CONTAINER AFTER USE.

Other Precautions:
WEAR PROTECTIVE GLOVES TO PREVENT POSSIBLE SKIN ABSORPTION AND DERMATITIS. KEEP OUT OF REACH OF CHILDREN.

Section VIII - Control Measures

Respiratory Protection (Specify Type):
AVOID BREATHING OF FUMES. IF USED IN A CONFINED AREA, A RESPIRATOR MAY BE NECESSARY.

Ventilation:	Local Exhaust: NORMAL VENTILATION IS ADEQUATE.	Special: N/A
	Mechanical (General): N/A.	Other: N/A

Protective Gloves: MAY BE NECESSARY FOR SENSITIVE SKIN.	Eye Protection: KEEP OUT OF EYES. WEAR PROTECTIVE GOGGLES WHERE NECESSARY.
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Other Protective Clothing or Equipment: N/A

Work/Hygienic Practices: WASH UP WITH SOAP AND WATER AFTER USE.

Weld-On® 721™ Low VOC Cement for PVC Plastic Pipe

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Weld-On® 721™ Low VOC Cement for PVC Plastic Pipe
PRODUCT USE: Low VOC Solvent Cement for PVC Plastic Pipe
SUPPLIER: **MANUFACTURER:** IPS Corporation
 17109 South Main Street, Carson, CA 90248-3127
 P.O. Box 379, Gardena, CA 90247-0379
 Tel. 1-310-898-3300
EMERGENCY: Transportation: CHEMTEL Tel. 800.255-3924, 813-248-0585 (International) **Medical:** Tel. 800.451.8346, 760.602.8703 3E Company (International)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Health		Environmental		Physical	
Acute Toxicity:	Category 4	Acute Toxicity:	None Known	Flammable Liquid	Category 2
Skin Irritation:	Category 3	Chronic Toxicity:	None Known		
Skin Sensitization:	NO				
Eye:	Category 2B				

GHS LABEL: OR **Signal Word:** **Danger** **WHMIS CLASSIFICATION:** CLASS B, DIVISION 2

Hazard Statements	Precautionary Statements
H225: Highly flammable liquid and vapor H319: Causes serious eye irritation H335: May cause respiratory irritation H336: May cause drowsiness or dizziness EUH019: May form explosive peroxides	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P337+P313: Get medical advice/attention P403+P233: Store in a well ventilated place. Keep container tightly closed P501: Dispose of contents/container in accordance with local regulation

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS#	EINECS #	REACH	CONCENTRATION
			Pre-registration Number	% by Weight
Tetrahydrofuran (THF)	109-99-9	203-726-8	05-2116297729-22-0000	40 - 55
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	05-2116297728-24-0000	5 - 15
Cyclohexanone	108-94-1	203-631-1	05-2116297718-25-0000	10 - 20
Acetone	67-64-1	200-662-2	05-2116297713-35-0000	3 - 15

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.
 * Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).
 # indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity.

SECTION 4 - FIRST AID MEASURES

Contact with eyes: Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.
Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice.
Inhalation: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.
Ingestion: Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately.

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Halon, water fog. **HMIS** **NFPA** **0-Minimal**
Unsuitable Extinguishing Media: Water spray or stream. **Health** **2** **2** **1-Slight**
Exposure Hazards: Inhalation and dermal contact **Flammability** **3** **3** **2-Moderate**
Combustion Products: Oxides of carbon, hydrogen chloride and smoke **Reactivity** **0** **0** **3-Serious**
Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks. **PPE** **B** **4-Severe**

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep away from heat, sparks and open flame.
 Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment.
 Prevent contact with skin or eyes (see section 8).
Environmental Precautions: Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.
Methods for Cleaning up: Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel.
Materials not to be used for clean up: Aluminum or plastic containers

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid breathing of vapor, avoid contact with eyes, skin and clothing.
 Keep away from ignition sources, use only electrically grounded handling equipment and ensure adequate ventilation/fume exhaust hoods.
 Do not eat, drink or smoke while handling.
Storage: Store in ventilated room or shade below 44°C (110°F) and away from direct sunlight.
 Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.
 Follow all precautionary information on container label, product bulletins and solvent cementing literature.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL:
	Tetrahydrofuran (THF)	50 ppm	100 ppm	200 ppm	
	Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	
	Cyclohexanone	20 ppm	50 ppm	50 ppm	
	Acetone	500 ppm	750 ppm	1000 ppm	

Engineering Controls: Use local exhaust as needed.
Monitoring: Maintain breathing zone airborne concentrations below exposure limits.
Personal Protective Equipment (PPE):
Eye Protection: Avoid contact with eyes, wear splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, etc. as may be appropriate for the exposure.
Skin Protection: Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion.
 Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application practices and procedures are used for making structural bonds.
Respiratory Protection: Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above.
 With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.



GHS SAFETY DATA SHEET

Weld-On® 721™ Low VOC Cement for PVC Plastic Pipe

Date Revised: **DEC 2011**
Supersedes: **FEB 2010**

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Blue, medium syrupy liquid	Odor Threshold:	0.88 ppm (Cyclohexanone)
Odor:	Ketone	Boiling Range:	56°C (133°F) to 156°C (313°F)
pH:	Not Applicable	Evaporation Rate:	> 1.0 (BUAC = 1)
Melting/Freezing Point:	-108.5°C (-163.3°F) Based on first melting component: THF	Flammability:	Category 2
Boiling Point:	56°C (133°F) Based on first boiling component: Acetone	Flammability Limits:	LEL: 1.1% based on Cyclohexanone UEL: 12.8% based on Acetone
Flash Point:	-20°C (-4°F) TCC based on Acetone	Vapor Pressure:	190 mm Hg @ 20°C (68°F) Acetone
Specific Gravity:	0.955 @23°C (73°F)	Vapor Density:	>2.0 (Air = 1)
Solubility:	Solvent portion soluble in water. Resin portion separates out.	Other Data: Viscosity:	Medium bodied
Partition Coefficient n-octanol/water:	Not Available		
Auto-ignition Temperature:	321°C (610°F) based on THF		
Decomposition Temperature:	Not Applicable		
VOC Content:	When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: ≤ 510 g/l.		

SECTION 10 - STABILITY AND REACTIVITY

Stability:	Stable
Hazardous decomposition products:	None in normal use. When forced to burn, this product gives off oxides of carbon, hydrogen chloride and smoke.
Conditions to avoid:	Keep away from heat, sparks, open flame and other ignition sources.
Incompatible Materials:	Oxidizers, strong acids and bases, amines, ammonia

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

Acute symptoms and effects:

Inhalation:	Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.
Eye Contact:	Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid.
Skin Contact:	Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.
Ingestion:	May cause nausea, vomiting, diarrhea and mental sluggishness.

Chronic (long-term) effects: None known to humans

Toxicity:	LD ₅₀	LC ₅₀
Tetrahydrofuran (THF)	Oral: 2842 mg/kg (rat)	Inhalation 3 hrs. 21,000 mg/m ³ (rat)
Methyl Ethyl Ketone (MEK)	Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit)	Inhalation 8 hrs. 23,500 mg/m ³ (rat)
Cyclohexanone	Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit)	Inhalation 4 hrs. 8,000 PPM (rat)
Acetone	Oral: 5800 mg/kg (rat)	Inhalation 50,100 mg/m ³ (rat)

Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Established	Not Established	Not Established	Not Established	Not Established	Not Established

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	None Known
Mobility:	In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of ≤ 510 g/l.
Degradability:	Biodegradable
Bioaccumulation:	Minimal to none.

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name:	Adhesives
Hazard Class:	3
Secondary Risk:	None
Identification Number:	UN 1133
Packing Group:	PG II
Label Required:	Class 3 Flammable Liquid
Marine Pollutant:	NO

EXCEPTION for Ground Shipping
DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package.
Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D".

TDG INFORMATION	
TDG CLASS:	FLAMMABLE LIQUID 3
SHIPPING NAME:	ADHESIVES
UN NUMBER/PACKING GROUP:	UN 1133, PG II

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information:	Highly Flammable, Irritant	Ingredient Listings:	USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS)
Symbols:	F, Xi	R66:	Repeated exposure may cause skin dryness or cracking
Risk Phrases:	R11: Highly flammable. R36/37: Irritating to eyes and respiratory system.	R67:	Vapors may cause drowsiness and dizziness
Safety Phrases:	S2: Keep out of the reach of children S9: Keep container in a well-ventilated place. S16: Keep away from sources of ignition - No smoking.	S25:	Avoid contact with eyes.
		S26:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
		S33:	Take precautionary measures against static discharges.

SECTION 16 - OTHER INFORMATION

Specification Information:		
Department issuing data sheet:	IPS, Safety Health & Environmental Affairs	All ingredients are compliant with the requirements of the European Directive on RoHS (Restriction of Hazardous Substances).
E-mail address:	<EHSinfo@ipscorp.com>	
Training necessary:	Yes, training in practices and procedures contained in product literature.	
Reissue date / reason for reissue:	12/14/2011 / Updated GHS Standard Format	
Intended Use of Product:	Solvent Cement for PVC Plastic Pipe	

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.