

UV WASH PLUS

1	PRODUCT AND COMPANY IDENTIFICATION
Product Identifier: SDS Number: Revision Date: Version: Internal ID: Product Use: Instructions:	UV WASH plus J5147 4/18/2018 1804 J5147 Reduced VOC Press Wash for UV Inks BLANKETS: Saturate a clean cloth or rag with UV WASH 5700. Wipe evenly across blanket until all ink and residue are removed. Remove excess. ROLLER WASH: Pour a generous amount of UV WASH 5700 on rollers while press is running. Allow press to run while solution works on rollers. Engage wash up blades. When rollers are clean, press is ready to resume operation. Repeat process for difficult clean-up situations.
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HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Skin corrosion/irritation, 2 Health, Aspiration hazard, 2 Health, Serious Eye Damage/Eye Irritation, 2 A Health, Specific target organ toxicity - Single exposure, 3 Physical, Flammable Liquids, 4

GHS Label elements, including precautionary statements

GHS Signal Word: WARNING

GHS Hazard Pictograms:



GHS Hazard Statements:

- H315 Causes skin irritation
- H305 May be harmful if swallowed and enters airways
- H319 Causes serious eye irritation
- H336 May cause drowsiness or dizziness
- H227 Combustible liquid

GHS Precautionary Statements:

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P261 Avoid breathing fume, gas, mist, vapors, or spray.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves, eye and face protection, and protective clothing.
- P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P306+360 - IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

P332+313 - If skin irritation occurs: Get medical advice/attention.

P337+313 - If eye irritation persists: Get medical advice/attention.

P403+233 - Store in a well ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents and container in accordance with local, national, and international regulations.

Hazards not otherwise classified (HNOC) or not covered by GHS

No additional information identified.

Percentage of components with Unknown Acute Toxicity:

Oral: 57% Dermal: 57% Inhalation: 57%

COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	olo	Chemical Name
		Isopropanol 2-Butoxyethanol

*Components not listed are either non-hazardous or are below reportable limits. *A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality, or is due to batch variation.

4 FIRST AID MEASURES Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Skin Contact: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.

Eye Contact: IF IN EYES: Rinse immediately with water for several minutes. Remove contact lenses and continue rinsing.

Ingestion: IF SWALLOWED: If fully conscious, drink large quantities of water. Rinse mouth. Do not induce vomiting. Get medical attention immediately. Call a poison center or physician. Remove dentures if any. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Most important symptoms/effects, acute and delayed: Signs and symptoms can include nausea, vomiting, abdominal cramps, and diarrhea shortly after ingestion. Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing. See Section 11 - Toxicological information.

Indication of immediate medical attention and special treatment needed: Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen.

General information: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. For personal protection, see Section 8 of the SDS. Wash contaminated clothing before reuse.

FIRE FIGHTING MEASURES

Suitable extinguishing media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol

resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

Unsuitable extinguishing media: Do not use direct water stream. Straight or direct water streams may not be effective to extinguish fire.

Special hazards arising from the substance or mixture Hazardous combustion products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

Unusual Fire and Explosion Hazards: Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. When product is stored in closed containers, a flammable atmosphere can develop. Electrically ground and bond all equipment. Flammable mixtures of this product are readily ignited even by static discharge. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Flammable mixtures may exist within the vapor space of containers at room temperature. Flammable concentrations of vapor can accumulate at temperatures above flash point; see Section 9.

Personal Protective Equipment For Fire Fighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures:

Use Personal Protective Equipment to clean up spills. Do not touch or walk through spilled materials. As an immediate precautionary measure, isolate spill or leak area. This product may contain components that are hazardous to aquatic life. Keep out of drains, sewers, ditches, and waterways.

Methods for Containment and Clean-Up

Small Spill: Absorb spill with vermiculite or other inert material (such as sand or other non-combustible material) and transfer to containers for later disposal.

Large Spill: Dike far ahead of liquid for later disposal. Use absorbent pads to contain. Collect up and place in a chemical waste container for disposal. Clean surface thoroughly to remove residual contamination.

Other Information: See Section 13 for waste disposal. US Regulations may require reporting spills of hazardous materials. See Section 15: Regulatory Information for details on reportable quantities, if any.

EXPOSURE CONTROLS/PERSONAL PROTECTION

7	HANDLING AND STORAGE
Handling Precautions:	Avoid breathing fumes, gas, mist, vapors, and/or spray. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye and face protection, and protective clothing. Wash skin thoroughly after handling.
Storage Requirements:	Keep away from heat, sparks, and flames. No smoking. Keep container tightly closed in a cool, dry, and well-ventilated place. Store locked up. Store away from incompatibles (See Section 10).

Engineering Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mist below their respective threshold limit value.
Personal Protective Equipment:	Respiratory protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
	Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
	Eye/Face protection: Tightly fitting safety goggles. Face-shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
	Skin and body protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Exposure Guidelines for Cor	mponents:

Isopropanol (67-63-0)

ACGIH TLV: 200 ppm TWA ACGIH TLV: 400 ppm STEL OSHA PEL: 400 ppm (980 mg/m3) TWA OSHA PEL: 500 ppm (1,225 mg/m3) STEL NIOSH: 400 ppm (980 mg/m3) TWA NIOSH: 500 ppm (1,225 mg/m3) STEL Other: not applicable

2-Butoxyethanol (111-76-2) ACGIH TLV: 20 ppm TWA ACGIH TLV: STEL No data available OSHA PEL: 50 ppm (240 mg/m3) TWA OSHA PEL: 25 ppm (120 mg/m3) TWA TABLE Z-1 Limits for Air Contaminants - 1910.1000 NIOSH: 5 ppm (24 mg/m3) TWA NIOSH: STEL No data available Other: Not applicable

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:
Physical State:
Odor Threshold:
Spec Grav./Density:
Viscosity:
Boiling Point:
Flammability:
Vapor Pressure:
pH:
Evap. Rate:
Decomp Temp:

Liquid No data available. 0.89 6.7 cP 144 F Flammable No data available. 4.1 No data available. No data available.

Clear Blue

Odor: Solubility: Freezing/Melting Pt.: Flash Point: Octanol: Vapor Density: VOC: Bulk Density: Auto-Ignition Temp: UFL/LFL: Alcohol Complete No data available. 83 F (TCC) No data available. No data available. 5.7 lbs/gal, 684 g/l, 77.5% 7.4 lbs/gal No data available. No data available.

STABILITY AND REACTIVITY

Reactivity:	Material does not pose a significant reactivity hazard.
Chemical Stability:	Product is stable under normal temperature and pressure (25C; 1 atm).
Conditions to Avoid:	Incompatible Materials. Dust Generation. Strong Oxidants. Excessive Heat. Do not store near open flame. Heat, sparks, open flames
Materials to Avoid:	(Incompatible Materials): Strong Oxidizing Agents.
Hazardous Decomposition:	Carbon Monoxide/Dioxide.
Hazardous Polymerization:	(Hazardous Reactions): Will not occur.

TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:

Ingestion, Inhalation, Eye Contact, Skin Contact.

Symptoms:

Inhalation: Vapors can cause irritation of the respiratory tract. High concentrations can cause headache, nausea, weakness, lightheadedness, and stupor (CNS depression). Dust may irritate nose and throat

Eye Contact: May cause severe irritation to eyes. May cause tearing, redness and discomfort.

Skin Contact: Can be absorbed through skin and produce central nervous system effects. May cause allergic skin reaction. Prolonged or repeated contact can result in defatting and drying of the skin, which may result in skin irritation and dermatitis (rash).

Ingestion: Ingestion may cause gastrointestinal tract irritation. Overexposure may cause nausea, diarrhea, and/or vomiting. May cause dizziness and drowsiness and/or stupor.

Acute Toxicity:

Oral: Isopropanol (67-63-0): LD50 - rat - 5,045 mg/kg 2-Butoxyethanol (111-76-2): LD50 - rat - 470 mg/kg

Dermal: Isopropanol (67-63-0): LD50 - rabbit - 12,800 mg/kg 2-Butoxyethanol (111-76-2): LD50 - rabbit - 220 mg/kg

Inhalation: Isopropanol (67-63-0): LC50 - rat - 8 h - 16000 ppm 2-Butoxyethanol (111-76-2): LC50 - rat - 4 h - 450 ppm

Skin Corrosion: Skin irritant

Serious Eye Damage/ Eye Irritation: Eye Irritant

Sensitization: no data available

Germ Cell Mutagenicity: no data available

Carcinogenicity: IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Butoxyethanol) IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol)

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH, NTP, or OSHA.

Reproductive/ Developmental Toxicity: no data available

Specific Target Organ Toxicity:

Single Exposure: May cause drowsiness or dizziness.

Repeated Exposure: no data available

Aspiration Hazard: May be fatal if swallowed and enters airways.

ECOLOGICAL INFORMATION

Component data:

Isopropanol (67-63-0) Toxicity:

fish LC50 - Pimephales promelas (fathead minnow) - 9,640.00 mg/l - 96 h. daphnia and EC50 - Daphnia magna (Water flea) - 5,102.00 mg/l - 24 h. Immobilization EC50 - Daphnia magna (Water flea) - 6,851 mg/l - 24 h algae EC50 - Desmodesmus subspicatus (green algae) - > 2,000.00 mg/l - 72 h. EC50 - Algae - > 1,000.00 mg/l - 24 h

2-Butoxyethanol (111-76-2)

Toxicity:

fish LC50 - other fish - 220 mg/l - 96 h.

daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 1,815 mg/l - 24 h. Ratio BOD/ThBOD 88 %

Product Data:

Persistence and degradability: no data available Bioaccumulative potential: no data available Mobility in soil: no data available PBT and vPvB assessment: no data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

TRANSPORT INFORMATION

UN1993, Flammable liquids, n.o.s., 3, PGII, ((ISOPROPANOL, ETHYLENE GLYCOL BUTYL ETHER)) IATA: UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL, ETHYLENE GLYCOL BUTYL ETHER), 3, II, 364

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REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Isopropanol (67-63-0) [30-60%] MASS, NJHS, NRC, OSHAWAC, PA, SARA313, TSCA, TXAIR

2-Butoxyethanol (111-76-2) [30-60%] HAP, MASS, OSHAWAC, PA, TSCA, TXAIR

California Prop. 65 Components:

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory CODE Descriptions

MASS = MA Massachusetts Hazardous Substances List NJHS = NJ Right-to-Know Hazardous Substances NRC = Nationally Recognized Carcinogens OSHAWAC = OSHA Workplace Air Contaminants PA = PA Right-To-Know List of Hazardous Substances SARA313 = SARA 313 Title III Toxic Chemicals TSCA = Toxic Substances Control Act TXAIR = TX Air Contaminants with Health Effects Screening Level HAP = Hazardous Air Pollutants

OTHER INFORMATION

HMIS III: Health = 1(Chronic), Fire = 3, Physical Hazard = 0 HMIS PPE: B - Safety Glasses, Gloves

HMIS				
HEALTH		1		
FLAMMABILITY	t j	3		
PHYSICALHAZA	RD	0		
PERSONAL PROTE	ECTION	в		

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