

**1****PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier: PPI-2001 White
Common Name: Marking Ink
Revision Date: 1/12/2023
CAS Number: Mixture
EPA Number: Not applicable
Product Use: Identification marking ink

Supplier Details: Pannier Corporation 207
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2**HAZARDS IDENTIFICATION****Classification of Substance****GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**

Physical, Flammable Liquids, 2
Health, Acute toxicity, 4 Oral
Health, Skin corrosion/irritation, 2
Health, Acute toxicity, 4 Inhalation
Health, Reproductive toxicity, 2
Health, Specific target organ toxicity - Repeated exposure, 2

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:

**GHS Hazard Statements:**

H225 - Highly flammable liquid and vapor
H302 - Harmful if swallowed
H315 - Causes skin irritation
H332 - Harmful if inhaled
H361 - Suspected of damaging fertility or the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure

GHS Precautionary Statements:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/light/equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+352 - IF ON SKIN: Wash with soap and water.
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308+313 - IF exposed or concerned: Get medical advice/attention.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P314 - Get Medical advice/attention if you feel unwell.
P330 - Rinse mouth.
P332+313 - If skin irritation occurs: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.
P370+378 - In case of fire: Use water spray, carbon dioxide, dry chemical or foam for extinction.
P403+235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Route of Entry:	Eyes; Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately. Ingestion; If large quantities of this material are swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person inhalation; Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. Skin; Flush skin with plenty of water. Remove contaminated clothing and shoes.
Target Organs:	Prolonged or repeated contact may cause skin sensitization or dermatitis. Reports have associated repeated and prolonged occupational overexposure to solvents with irreversible brain and nervous system damage. Ethanol is known to cause developmental reproductive toxicity. Intentional misuse by deliberately concentrating or inhaling this product may be harmful or fatal.
Inhalation:	High concentrations of vapors may produce irritation of the respiratory tract, headache, dizziness, and nausea. Liquid is mildly irritating to the skin.
Skin Contact:	Liquid is moderately irritating to the eyes.
Eye Contact:	Ingestion of liquid may cause vomiting.
Ingestion:	

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COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients:		
CAS#	%	Chemical Name:
67-64-1	50-60%	Acetone
13463-67-7	1-10%	Titanium dioxide
110-43-0	1-05%	Methyl amyl ketone
64-17-5	1-05%	Ethanol
141-78-6	1-05%	Ethyl acetate
123-86-4	1-05%	n-Butyl acetate
108-88-3	1-05%	Toluene
67-63-0	1-05%	isopropyl alcohol
1330-20-7	1-05%	Xylene
108-10-1	0.1-1%	Methyl isobutyl ketone
100-41-4	0.1-1%	Ethyl benzene

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FIRST AID MEASURES

Inhalation:	Remove to fresh air and keep in a position comfortable for breathing. Respiratory problems: consult a doctor/medical service.
Skin Contact:	Flush skin with plenty of water. Remove contaminated clothing and shoes.
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Ingestion:	If large quantities of this material are swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person. Do NOT induce vomiting or attempt chemical neutralization.

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FIRE FIGHTING MEASURES

Flammability:	Extinguishing media: Suitable extinguishing media: Use water fog, Alcohol-resistant foam, Carbon dioxide, or Dry chemical powder. Use media suitable for surrounding fire. Special hazards arising from the substance or mixture: Fire hazard, highly flammable liquid and vapor. Gas/vapor flammable with air
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within explosion limits. Gas/vapor spreads at floor level: ignition hazard. Stay upwind of a fire to minimize breathing of vapors, gases, fumes, or decomposition products. Explosion hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Advice for firefighters: Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment. Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

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Flash Point: Tag Closed Cup (TCC)
Flash Point Method: No Data Available
Burning Rate: No Data Available
Autoignition Temperature: 1.0
Lower Explosive Limit: 19
Upper Explosive Limit:

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ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb liquid with non-combustible floor absorbent and place in non-leaking container; seal properly and dispose of properly in compliance with federal, state, and local regulations.

LARGE SPILL: Evacuate area of unprotected personnel. Eliminate all ignition sources. Stop spill at source if safe to do so. Handling equipment must be grounded to prevent sparking and static discharge. Prevent spill from entering drains, sewers, streams or other bodies of water. If run-off occurs, notify proper authorities. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Dispose of properly in compliance with federal, state, and local regulations.

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HANDLING AND STORAGE

Handling Precautions: 7.1. Precautions for safe handling, additional hazards when processed:
Handle empty containers with care because vapors are potentially flammable. In use, may form flammable vapor-air mixture.
Precautions for safe handling: Use personal protective equipment as required. Use only in well-ventilated areas. Use earthed equipment. Take precautionary measures against static discharge. Safety showers and eye wash fountains should be readily available in handling and storage areas. No naked lights. No smoking. Keep containers away from heat and open flame. Avoid breathing vapors/mis spray
Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product.

Storage Requirements: Keep away from heat, sparks and open flames. Keep out of reach of children. Keep container tightly sealed when not in use. Store in a cool, well-ventilated place away from incompatible materials.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Engineering Controls: Local exhaust not usually needed.
Mechanical (General): General area ventilation is recommended.

Personal Protective Equipment: HMIS PP, B | Safety Glasses, Gloves
Personal protective equipment: Avoid all unnecessary exposure.
Eye protection: Wear chemical splash goggles in compliance with OSHA regulation if splashing is possible or when transfilling or breaking transfer connections.
Hand protection: Chemical resistant gloves if skin contact is possible. Nitrile gloves or consult your safety equipment supplier.
Skin and body protection: Protective clothing not usually necessary. For bulk material, if direct contact is possible, wear apron, boots, face shield, etc. as needed.
Work/Hygienic Practices: Follow label instructions. Wash hands after use and before eating, drinking, smoking, using restrooms, etc.

Acetone (67-64-1)

USA ACGIH TWA (ppm) 500 ppm; USA ACGIH STEL (ppm) 750 ppm; USA OSHA PEL (TWA) (ppm) 1000 ppm; USA NIOSH REL (TWA) (ppm) 250 ppm

Titanium Dioxide (13463-67-7)

USA ACGIH TWA (ppm) 10 mg/m³ ; USA ACGIH STEL (ppm) 10 mg/m³ ; USA OSHA PEL (TWA) (ppm) 15 mg/m³

Methyl Amyl Ketone (110-43-0)

USA ACGIH TWA (ppm) 50 ppm; USA OSHA PEL (TWA) (ppm) 100 ppm

Ethanol (64-17-5)

USA ACGIH STEL (ppm) 1000 ppm; USA OSHA PEL (TWA) (ppm) 1000 ppm

Ethyl Acetate (141-78-6) USA ACGIH (TWA) (ppm) 400 ppm; USA OSHA PEL (TWA) (ppm) 400 ppm; USA NIOSH REL (TWA) (ppm) 400 ppm

N-Butyl Acetate (123-86-4)

USA ACGIH TWA (ppm) 150 ppm; USA ACGIH STEL (ppm) 200 ppm; USA OSHA PEL (TWA) (ppm) 150 ppm

Toluene (108-88-3)

USA ACGIH TWA (ppm) 20 ppm; USA OSHA PEL (TWA) (ppm) 200 ppm; USA OSHA PEL (Ceiling) (ppm) 300 ppm; USA OSHA Remark 500 ppm 10-minute peak per 8-hr shift.

isopropyl Alcohol (67-63-0)

USA ACGIH TWA (ppm) 200 ppm; USA ACGIH STEL (ppm) 400 ppm; USA OSHA PEL (TWA) (ppm) 400 ppm; USA NIOSH REL (TWA) (ppm) 400 ppm; USA NIOSH REL (STEL) (ppm) 500 ppm

Xylene (1330-20-7)

USA ACGIH TWA (ppm) 100 ppm; USA ACGIH STEL (ppm) 150 ppm; USA OSHA PEL (TWA) 100 ppm; USA NIOSH REL (TWA) (ppm) 100 ppm; USA NIOSH REL (STEL) (ppm) 150 ppm

Methyl isobutyl Ketone (108-10-1)

USA ACGIH TWA (ppm) 20 ppm; USA ACGIH STEL (ppm) 75 ppm; USA ACGIH Remark (ACGIH) URT irr; dizziness; headache; USA OSHA PEL (TWA) (ppm) 100 ppm; USA NIOSH REL (TWA) (ppm) 50 ppm; USA NIOSH REL (STEL) (ppm) 75 ppm

Ethyl Benzene (100-41-4)

USA ACGIH TWA (ppm) 20 ppm; USA ACGIH STEL (ppm) 125 ppm; USA OSHA PEL (TWA) 100 ppm; USA NIOSH REL (TWA) (ppm) 100 ppm; USA NIOSH REL (STEL) (ppm) 125 ppm

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White colored thin viscosity liquid with sweet solvent odor.
Physical State:	Liquid
Odor:	Sweet solvent odor
Odor Threshold:	No data available
Molecular Formula:	Mixture
Particle Size:	Not applicable
Solubility:	Partially soluble in water
Specific Gravity or Density:	0.92
Softening Point:	No data available
Viscosity:	Thin liquid.
Percent Volatile:	79% Volatile
Saturated Vapor Concentration:	No data available
Heat Value:	No data available
Boiling Point:	133-305 F
Freezing or Melting Point:	No data available
Flammability:	No data available
Flash Point:	-4 F
Partition Coefficient:	No data available
Octanol:	No data available
Vapor Pressure:	No data available
Vapor Density:	Heavier than air.
Potential	Not applicable
Hydrogenic:	5.27 lbs/gal
Volatile organic compound:	Faster than N-butyl Acetate = 1
Evaporation Rate:	No data available
Bulk Density:	No data available
Molecular weight:	No data available
Autoignition Temperature:	No data available
Decompression Temperature:	1.0/19.0
Upper Flammability Limit and Lower Flammability Limit:	

Chemical Stability:

Reactivity: No additional information available

10.2. Chemical stability:

Stable under normal conditions.

10.3. Possibility of hazardous reactions:

No additional information available

10.4. Conditions to avoid:

Heat, Sparks or Open flame. DO NOT distill or evaporate to near dryness. potential peroxide formation.

10.5. Incompatible material:

Oxidizing agent, Strong acids & Strong bases.

10.6. Hazardous decomposition products:

Carbon dioxide & Carbon monoxide

Conditions to Avoid:

Avoid strong oxidizing and reducing agents, strong alkalis and strong acids.

Acetone (67-64-1)

LOSO oral rat 5800 mg/kg (Rat; Experimental value); LOSO dermal rabbit 20000 mg/kg (Rabbit; Experimental value); Skin corrosion/irritation: Not classified; Serious eye damage/irritation: Causes eye irritation.; Respiratory or skin sensitization: Not classified; LC50 inhalation rat (mg/l): 71 mg/l/4h (Rat; Experimental value) LC50 inhalation rat (ppm): 30000 ppm/4h (Rat; Experimental value)

Titanium Dioxide (13463-67-7)

LOSO oral rat 5000 mg/kg (Rat); LOSO dermal rat >= No skin irritation; LC50 inhalation rat (mg/l) > 6.82 mg/l 4Hr; Repeated dose toxicity: No data available. Skin corrosion/irritation: None known. Serious eye damage/eye irritation: Causes serious eye irritation. Respiratory or skin sensitization: Not classified; Mutagenicity: No data available. Carcinogenicity: As airborne, unbound particles of respirable size is suspected of causing cancer. IARC has classified TiO2 as 28 Possibly carcinogenic to humans. However, the only evidence of carcinogenicity is in rats exposed to very high concentrations. Two major epidemiology studies among titanium dioxide workers in the US and in Europe could not demonstrate an elevated lung cancer risk. Reproductive toxicity: None known. Specific target organ toxicity-single exposure: None known. Specific target organ toxicity-repeated exposure: None known. Aspiration hazard: No data available. Other adverse effects: No data available.

Methyl Amyl Ketone (110-43-0)

LOSO oral rat 1600 mg/kg; LOSO dermal rabbit >2000 mg/kg; LC50 inhalation rat (mg/l) > 16.7 mg/l/4h (Rat)

Ethanol (64-17-5)

LOSO oral rat 10740 mg/kg body weight (Rat; Experimental value. Rat; Experimental value); LD50 dermal rabbit > 16000 mg/kg (Rabbit)

Ethyl Acetate (141-78-6)

LOSO oral rat: 5620 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 10200 mg/kg bodyweight; Rat); LOSO dermal rabbit: > 18000 mg/kg (Rabbit; Experimental value; 24-hour cuff method; >20000 mg/kg bodyweight; Rabbit); LC50 inhalation rat (mg/l): 70.56 mg/l/4h (Rat); LC50 inhalation rat (ppm): 19600 ppm/4h (Rat)

N-Butyl Acetate (123-86-4)

LOSO oral rat 14130 mg/kg (Rat); LOSO dermal rabbit > 16ml/kg; LC50 inhalation rat (mg/l) >21.1mg/l/4h; Repeated dose toxicity: No data available; Skin corrosion/irritation:(Rabbit, 72 h): No data available; Serious eye damage/eye irritation (Rabbit, 24 h) none; Respiratory or skin sensitization: Guinea Pig- non-sensitizing; Mutagenicity: No data available. Carcinogenicity: No data available; Reproductive toxicity: No data available; Specific target organ toxicity-single exposure: No data available; Specific target organ toxicity-repeated exposure: No data available; Aspiration hazard: No data available; Other adverse effects: No data available.

Toluene (108-88-3)

LOSO oral rat 636 mg/kg; LOSO dermal rabbit 12223 mg/kg (>5000 mg/kg bodyweight; Rabbit; Rabbit; Experimental value; Other, >5000 mg/kg bodyweight; Rabbit; Rabbit; Experimental value; Other); LC50 inhalation rat (mg/l) > 20 mg/l/4h (Rat); Additional information Target organs: liver, kidneys, CNS, blood, heart, adrenals, spleen, auditory

isopropyl Alcohol (67-63-0)

LOSO oral rat 5045 mg/kg (5840 mg/kg bodyweight; Rat; Rat; Experimental value, 5840 mg/kg bodyweight; Rat; Rat; Experimental value); LOSO dermal rabbit 12870 mg/kg (16.4; Rabbit; Rabbit; Experimental value, 16.4; Rabbit; Rabbit; Experimental value); LC50 inhalation rat (mg/l) 73 mg/l/4h (Rat)

Xylene (1330-20-7)

LOSO oral (Rat) >3608 mg/kg; LOSO dermal (Rat) >= 2000 mg/kg body weight; LOSO dermal (rabbit) > 10 ml/kg; LC50 inhalation (Rat 4 h) 2000-4000 ppm; Repeated dose toxicity: No data available; Skin corrosion/irritation: not classified; Serious eye damage/eye irritation: causes serious eye irritation; Respiratory or skin sensitization: Not classified; Mutagenicity: No data available; Carcinogenicity: Not classified; Reproductive toxicity: No data available; Specific target organ toxicity-single exposure: may cause drowsiness or dizziness; Specific target organ toxicity-repeated exposure: No data available; Aspiration hazard: Not classified; Other adverse effects: Target organs: liver, kidneys, blood, heart, bone marrow, CNS, auditory.

Methyl isobutyl Ketone (108-10-1)

LOSO oral (Rat) 2080 mg/kg; LOSO dermal (Rat) >= 2000 mg/kg body weight; LOSO dermal (rabbit) > 10 ml/kg; LC50 inhalation (Rat 4 h) 2000-4000 ppm; Repeated dose toxicity: No data available. Skin corrosion/irritation:(Rabbit, 72 h):none; Serious eye damage/eye irritation (Rabbit): slight to moderate; Respiratory or skin sensitization: No data available; Mutagenicity: No data available; Carcinogenicity: IARC 28: Possibly carcinogenic to humans; Reproductive toxicity: No data available; Specific target organ toxicity-single exposure: No data available; Specific target organ toxicity-repeated exposure: No data available; Aspiration hazard: May be harmful if swallowed and enters airways; Other adverse effects: MIBK is classified as an IARC 2B material. IARC 2B is a classification for possible human carcinogen based on sufficient evidence on carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans.

Ethyl Benzene (100-41-4)

LD50 oral (Rat) 3500 mg/kg; LD50 dermal (Rabbit) >= 15415 mg/kg body weight; LC50 inhalation (Rat 4 h) 17.8 mg/l/4h (Rat) LC50 inhalation rat (ppm) 4000 ppm/H (Rat); Repeated dose toxicity: No data available. Skin corrosion/irritation: (Rabbit, 72 h): No data available; Serious eye damage/eye irritation (Rabbit): No data available; Respiratory or skin sensitization: No data available; Mutagenicity: No data available; Carcinogenicity: IARC 2B: Possibly carcinogenic to humans; Reproductive toxicity: No data available; Specific target organ toxicity-single exposure: No data available; Specific target organ toxicity- repeated exposure: No data available; Aspiration hazard: May be harmful if swallowed and enters airways; Other adverse effects: Ethyl Benzene is classified as an IARC 2B material. IARC 2B is a classification for possible human carcinogen based on sufficient evidence on carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans.

Repeated dose toxicity: No data available
Skin corrosion/irritation: Causes skin irritation
Serious eye damage/eye irritation: Causes serious eye irritation
Respiratory or skin sensitization: Not classified
Mutagenicity: No data available
Carcinogenicity: No data available
Reproductive toxicity: No data available
Specific target organ toxicity-single exposure: No data available
Specific target organ toxicity-repeated exposure: No data available
Aspiration hazard: No data available
Other adverse effects: No data available

12**ECOLOGICAL INFORMATION****Acetone (64-64-1)**

LC50 fish 6210 mg/l (96 h; Pimephales promelas; NOMINAL CONCENTRATION); EC50 Daphnia 1 8800 mg/l (48 h; Daphnia magna); LC50 fish 2 5540 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); TLM fish 1 13000 ppm (96 h; Gambusia affinis; TURBULENT WATER); TLM fish 2 >1000 ppm (96G; Pisces); Threshold limit other aquatic organisms 1 3000 mg/l (Plankton); Threshold limit other aquatic organisms 1 28 mg/l (Protozoa); Threshold limit algae 1 7500 mg/l (Scenedesmus quadricauda; PH=7); Threshold limit algae 2 3400 mg/l (48 h; Chlorella sp.)

Titanium Dioxide (13463-67-7)

Ecotoxicity: Not expected to be hazardous to the environment. Environmental effects: Not expected to be an environmental hazard.
Persistence and degradability: No data. Bioaccumulative potential: Unlikely significant do to water insolubility. Mobility in soil: Insoluble in water and will sediment in water systems. Other adverse effects: No additional information available.

Methyl Amyl Ketone (110-43-0)

LC50 fish 131 mg/l (Fathead Minnow, 96H)

Ethanol (64-17-5)

LC50 fish 1 14200 mg/l (96 h; Pimephales promelas; NOMINAL CONCENTRATION); EC50 Daphnia 1 9300 mg/l (48 h; Daphnia magna); LC50 fish 2 13000 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); EC50 Daphnia 2 10800 mg/l (24 h; Daphnia magna); Threshold limit other aquatic organisms 1 65 mg/l (72 h; Protozoa); Threshold limit algae 1 1450 mg/l (192 h; Microcystis aeruginosa; GROWTH RATE); Threshold limit algae 2 5000 mg/l (168 h; Scenedesmus quadricauda; GROWTH RATE)

Ethyl Acetate (141-78-6)

LC50 fishes 1 54.7 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); EC50 Daphnia 1 2500 mg/l (24 h; Daphnia magna); LC50 fish 2 230 mg/l (96 h; Pimephales promelas); EC50 Daphnia 2 154 mg/l (48 h; Daphnia magna); TLM fish 1 100 - 1000,96 h; Pisces; TLM other aquatic organisms 1 100 - 1000,96 h; Threshold limit algae 1 2000 mg/l (96 h; Selenastrum capricornutum; Biomass); Threshold limit algae 2 15 mg/l (192 h; Scenedesmus quadricauda; Growth rate)

N-Butyl Acetate (123-86-4) Acute toxicity Fish: LC50 (Fathead Minnow, 96h):18 mg/l; Aquatic invertebrates LC50 (Water Flea, 48 h):44 mg/l; Chronic Toxicity: no data available; Fish: no data available; Aquatic invertebrates: No data available; Toxicity to aquatic plants:EC-50 (Algae, 72 h) 648 mg/l; Persistence and degradability: No data available; Biological Oxygen Demand: BOD-5: 1,020 mg/g, BOD -20: 1450 mg/g; Chemical Oxygen Demand: 1010 mg/g; BOD/COD ratio: 72%; Bioaccumulative potential: No data available; Mobility in soil: No data available; Other adverse effects: No data available.

Toluene (108-88-3)

LC50 fish 1 24 mg/l/96 h; Salmo gairdneri (Oncorhynchus mykiss); EC50 Daphnia 1 84 mg/l (24 h; Daphnia magna; LOCOMOTOR EFFECT); LC50 fish 2 13 mg/l (96 h; Lepomis macrochirus); EC50 Daphnia 2 11.5 - 19.6 mg/l (48 h; Daphnia magna); Threshold limit algae 1 > 400 mg/l (168 h; Scenedesmus quadricauda; TOXICITY TEST); Threshold limit algae 2 105 mg/l (192 h; Microcystis aeruginosa)

isopropyl Alcohol (67-63-0)

LC50 fish 1 4200 mg/l (96 h; Rasbora heteromorph; Flow-through system); EC50 Daphnia 1 > 10000 mg/l (48 h; Daphnia magna); LC50 fish 2 9640 mg/l (96 h; Pimephales promelas; LETHAL); EC50 Daphnia 2 13299 mg/l (48 h; Daphnia magna); Threshold limit algae 1 > 1000 mg/l (72 h; Scenedesmus subspicatus; GROWTH RATE)
Threshold limit algae 2 1800 mg/l (72 h; Algae; CELL NUMBERS)

Xylene (1330-20-7)

Acute toxicity Fish: LC50 (Salmo gairdneri):26-8.4 mg/l; EC50 (Daphnia 1 48 h): 1.4-7.4 mg/l; Aquatic invertebrates: no data available; Chronic Toxicity: no data available; Fish: no data available; Aquatic invertebrates: No data available; Toxicity to aquatic plants: No data available; Persistence and degradability: readily biodegradable in water; Biological Oxygen Demand: BOD 1.4-2.53 g/O2/g; Chemical Oxygen Demand: 2.56-2.91 O2/g substance; BOD(% of ThOD) 44-81.6 % ThOD; BOD/COD ratio: No data available; Bioaccumulative potential: No data available; Mobility in soil: No data available; Other adverse effects: No data available.

Methyl isobutyl Ketone (108-10-1)

Acute toxicity Fish: LC50 (goldfish, 24h):460 mg/l ; LC50 (golden orfe, 48 h): 675-750 mg/l; Aquatic invertebrates: LC-50 (Water flea, 24 h): 4,300 mg/l; LC-50 (Brown Shrimp, 24 h):1250 mg/l; Chronic Toxicity: no data available; Fish: no data available; Aquatic invertebrates: No data available; Toxicity to aquatic plants: No data available; Persistence and degradability: No data available; Biological Oxygen Demand: BOD-5: 1,940-2060 mg/g; Chemical Oxygen Demand: 2160-2460 mg/g; BOD/COD ratio: No data available; Bioaccumulative potential: No data available; Mobility in soil: No data available; Other adverse

effects: No data available.

Ethyl Benzene (100-41-4)

Acute toxicity Fish: LC50 (Pimephales promelas, 96h): 9.09 mg/l/460 mg/l; EC50 (Daphnia 1, 24 h): 77 mg/l; EC50 Aquatic organisms: 48mg/l (72 h, Scenedesmus subspicatus); Chronic Toxicity: no data available; Fish: no data available; Aquatic invertebrates: No data available; Toxicity to aquatic plants: No data available; Persistence and degradability: Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil; Biochemical Oxygen Demand: 1.44g/O₂/g substance (20D); Chemical Oxygen Demand: 2.1g O₂/g substance; ThOd 3.17 g/O₂/g substance; BOD (% of ThOD) 44-81.6 % ThOd; BOD/COD ratio: No data available; Bioaccumulative potential: BCF fish 1 (6 weeks, Oncorhynchus kisutch); Mobility in soil: Surface tension 0.029 N/m; Other adverse effects: No data available.

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DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste disposal recommendations: In its manufactured form this material is hazardous for ignitability (D001) under federal RCRA disposal criteria. Spent material may contain other hazardous components or lend other hazardous properties to this material. Generators are advised to perform analysis on all waste streams for proper characterization and disposal.

Additional information: Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials: Avoid release to the environment.

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TRANSPORT INFORMATION

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

Domestic Highway:

Proper Shipping Name: Printing Ink

Hazard Class/Subsidiary Hazard: 3 Flammable liquid

UN/NA No: 1210

Packing Group: TT

Label Required: Flammable Liquid

Domestic Air Shipments:

Proper Shipping Name: Printing Ink

Hazard Class/Subsidiary Hazard: 3 Flammable liquid

UN/NA No: 1210

Packing Group: II

Label Required: Flammable Liquid

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REGULATORY INFORMATION

COMPONENT/ (CAS/PERC) / CODES

*Acetone (67641 50-60%) CERCLA, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

*Titanium dioxide (13463677 1-10%) MASS, OSHAWAC, PA, TSCA, TXAIR

*Methyl amyl ketone (110430 1-5%) MASS, OSHAWAC, PA, TSCA, TXAIR

*Ethanol (64175 1-5%) MASS, OSHAWAC, PA, TSCA, TXAIR

*Ethyl acetate (141786 1-5%) CERCLA, MASS, OSHAWAC, PA, TOXICRCRA, TSCA, TXAIR, TXHWL

*n-Butyl acetate (123864 1-5%) CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR

*Toluene (108883 1-5%) CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, PRIPOL, PROP65, SARA313, TOXICPOL, TOXICRCRA, TSCA, TXAIR, TXHWL

*isopropanol (67630 1-5%) MASS, NJHS, NRC, OSHAWAC, PA, SARA313, TSCA, TXAIR

*Xylene (13302071-5%) CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

*Methyl isobutyl ketone (108101 01-1%) CERCLA, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

*Ethylbenzene (10041401-1%) CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, PRIPOL, SARA313, TOX, POL, TSCA, TXAIR

WARNING

This product can expose you to chemicals including Methyl isobutyl ketone, and Ethylbenzene, which are known to the State of California to cause cancer, and Toluene, and Methyl isobutyl ketone (MIBK), which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Canada:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by these regulations.

-DSL/NDSL; All materials in this product are listed on the DSL.

WHMIS Classifications: B2, D2A, D2B Regulatory

KEY DISCRIPTIONS:

MASS = MA Massachusetts Hazardous substances list

OSHA WAC = OSHA workplace air contaminants

PA = PA Right-to-Know list of Hazardous substances

TSCA = Toxic Substances Control Act

TX AIR = TX Air Contaminants with Health Effects Screening Level

CERCLA = Super Fund Clean Up Substance

CSWHS = Clean Water Act Hazardous Substances

EPCRAWPC = EPCRA Water Priority Chemicals

HAP = Hazardous AirPollutants

NJHS = NJ Right-to-Know Hazardous Substances

PRIPOL = Clean Water Act Priority Pollutants

PROP65 = CA Prop 65

SARA 313 = Sara 313 Title III Toxic Chemicals

TOXICPOL = Clean Water Act Toxic Pollutants

TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)

TXHWL = TX Hazardous Waste List

ACUTERCRA = RCRA Acute Hazardous Waste (P-List)

EHS302 – Extremely Hazardous Substance

NJEHS = NJ Extraordinarily Hazardous Substances

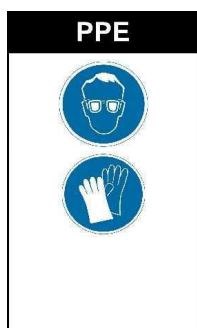
OSHAPSM = OSHA Chemicals Requiring Process Safety Management

NRC = Nationally Recognized carcinogens

HMIS III: Health = 2, Fire = 3, Physical Hazard = 1

HMIS PPE: B - Safety Glasses, Gloves

HMIS		
HEALTH	2	
FLAMMABILITY	3	
PHYSICAL HAZARD		
PERSONAL PROTECTION	B	



WARNING! The use of this product is beyond the control of the manufacturer and distributor; there fore, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The user must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials. The manufacturer and distributor warrant only that this product meets the specifications for such product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER OF THIS PRODUCT. THE MANUFACTURER AND DISTRIBUTOR SHALL BE IN NO WAY RESPONSIBLE FOR THE PROPER USE OF THIS PRODUCT. The sole and exclusive remedy against the manufacturer and distributor for breach of warranty shall be reimbursement of the purchase price of the product in the event that a defective condition of the product shall be found to exist. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

Revision Date: 1/12/2023