

CHO-SHIELD® 2002, Part A SDS No: PHC-020

SDS Preparation Date (mm/dd/yyyy): 11/21/2018

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SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: CHO-SHIELD® 2002, Part A

Product Code(s) : 52-00-2002-0000, 52-00-2002-1000, 52-01-2002-0000, 52-03-2002-0000, 52-04-2002-0000

Recommended use of the chemical and restrictions on use

: Product component of a 3-part, conductive, copper-filled, solvent-based, fluoropolymer

coating. Intended for composite substrates.

No restrictions on use known.

Chemical family : Mixture of: Metal compounds; Halogenated compounds; Organotin compound; Solvent;

Fluoropolymer; Polyol

SDS number : PHC-020

Name, address, and telephone number of N

the manufacturer:

Name, address, and telephone number of

the supplier:

Parker Hannifin Corp. Refer to manufacturer

Chomerics Division 77 Dragon Court Woburn, MA, USA

01888

Manufacturer's Telephone # : (781) 935-4850

24 Hr. Emergency Tel # : INFOTRAC: (800) 535-5053 (Within Continental US and Canada); (352) 323-3500

(International)

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Brownish, copper colored liquid. Solvent odor.

Most important hazards:

Flammable liquid and vapor. May be ignited by open flame.

Irritating to skin. Possible cancer hazard - contains material which may cause cancer. Contains material which can cause birth defects based on animal data. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

Harmful to aquatic life. Avoid release to the environment. See Section 12 for more environmental information.

This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008. Classification:

Flammable liquid - Category 3 Skin corrosion/irritation - Category 2 Carcinogenicity - Category 2 Reproductive toxicity - Category 2

Label elements

Hazard pictogram(s)

WARNING!





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Hazard statement(s)

Flammable liquid and vapor. Causes skin irritation. Suspected of causing cancer. Suspected of damaging the unborn child.

Precautionary statement(s)

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical and ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash exposed skin thoroughly after handling. Wear protective gloves/clothing and eye/face protection. In case of fire: Use carbon dioxide, dry chemical or foam to extinguish.

IF exposed or concerned: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Store in a well-ventilated place. Keep cool. Store locked up.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification:

May form explosive peroxides during prolonged exposure to air and heat. Rate of peroxide formation is not known. Toxic fumes may be released during a fire. Mild respiratory irritant Direct eye contact may cause slight or mild, transient irritation. Inhalation of fumes may result in metal fume fever, a flu-like illness. May cause gastrointestinal irritation. Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	Common name and synonyms	CAS#	Concentration (% by weight)
Copper	Not available.	7440-50-8	60.0 - 80.0
Xylene	Dimethylbenzene Methyltoluene Xylol	1330-20-7	5.0 - 10.0
Ethylbenzene	Ethylbenzol Phenylethane	100-41-4	3.0 - 7.0
2-Methoxy-1-methylethyl acetate	Propylene glycol monomethyl ether acetate PGMEA	108-65-6	0.5 - 1.5

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion : Do not induce vomiting. Never give anything by mouth to a person who is unconscious or is

having convulsions. IF exposed or concerned: Get medical advice/attention.

Inhalation : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical

personnel only. If breathing stops, provide artificial respiration. IF exposed or concerned:

Get medical advice/attention.

Skin contact: IF ON SKIN: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention. Take off contaminated clothing and wash it before reuse.

Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if

present and easy to do. Continue rinsing. When symptoms persist or in all cases of doubt,

seek medical advice.



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Most important symptoms and effects, both acute and delayed

: Causes skin irritation. Contact may cause redness, swelling and a painful sensation. Suspected of causing cancer. Symptoms may include persistent coughing, shortness of breath, coughing up blood and wheezing.

Suspected of damaging the unborn child. Symptoms may include reduced fetal weight, delayed ossification and persistent behavioral effects.

Direct eye contact may cause slight or mild, transient irritation. Direct eye contact may cause slight redness.

Mild respiratory irritant. High concentrations of vapors or mists may cause coughing and mild, temporary irritation. Inhalation of fumes may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.

Indication of any immediate medical attention and special treatment needed

: Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

: Carbon dioxide (CO2); Dry chemical; Alcohol resistant foam; Water fog .

Unsuitable extinguishing media

: Do not use water jet, as this may spread burning material.

Special hazards arising from the substance or mixture / Conditions of flammability

Flammable liquid and vapor. May be ignited by open flame. After prolonged storage, may release explosive peroxides in the presence of air. Rate of peroxide formation is not known. Vapors may be heavier than air and may collect in confined and low-lying areas. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Flammability classification (OSHA 29 CFR 1910.106)

: Flammable liquid - Category 3

Hazardous combustion products

Carbon oxides; Metal oxides; Aldehydes; Hydrogen fluoride; Carbonyl halides; Other unidentified organic compounds

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Keep people away from and upwind of spill/leak. Wear appropriate protective equipment. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Prevent product from entering drains, sewers, waterways and soil. Avoid release to the environment. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.



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Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools. Use inert, non-combustible absorbents to assist the pick up of material. Do not use combustible absorbents, such as sawdust. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities. For waste disposal, see Section 13 of the SDS.

Special spill response procedures

If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).

US CERCLA Reportable quantity (RQ): Copper (5000 lbs / 2270 kg); Xylene (100 lbs / 45.4 kg); Ethylbenzene (1000 lbs / 454 kg)

In Canada: Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted.

Use with adequate ventilation. Wear suitable protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Avoid breathing fumes, mists or vapors. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Ground/Bond container and receiving equipment. Use explosion-proof electrical and ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling. Empty containers retain residue (liquid and/or vapor) and can be dangerous.

Conditions for safe storage

Store in cool/well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area. Keep away from incompatibles.

Incompatible materials

: Strong oxidizing agents; Strong acids; Strong bases



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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

xposure Limits:					
Chemical Name	ACGIH 1	<u>LV</u>	OSHA PEL		
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	STEL	
Copper	0.2 mg/m³ (fume); 1 mg/m³ (Dust and mist)	N/Av	0.1 mg/m³ (fume); 1 mg/m³ (Dust and mist)	N/Av	
Xylene	100 ppm	150 ppm	100 ppm (435 mg/m³)	N/Av	
Ethylbenzene	20 ppm	N/Av	100 ppm (435 mg/m³)	N/Av	
2-Methoxy-1-methylethyl acetate	50 ppm (AIHA WEEL)	N/Av	N/Av	N/Av	

Exposure controls

Ventilation and engineering measures

: Provide adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Good general ventilation (typically 10 air changes per hour) should be used. Use explosion-proof electrical and ventilating equipment. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

Skin protection

: Wear protective gloves/clothing. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Wear resistant clothing and boots. Depending on conditions of use, an impervious apron should be worn.

Eye / face protection

Wear eye/face protection. Wear as appropriate: Safety glasses with side shields; Tightly fitting safety goggles. A full face shield may also be necessary.

Other protective equipment

Ensure that eyewash stations and safety showers are close to the workstation location.

Other equipment may be required depending on workplace standards.

General hygiene considerations

Avoid breathing fumes, mists or vapors. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brownish, copper colored liquid.

Odor : Solvent odor.

Odor threshold : N/Av
pH : N/Av
Melting/Freezing point : N/Av
Initial boiling point and boiling range

N/Av

Flash point : 28.9°C (84°F) (based on ingredients)

Flashpoint (Method) : closed cup Evaporation rate (BuAe = 1) : N/Av



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Flammability (solid, gas) Not applicable.

Lower flammable limit (% by vol.)

N/Av

Upper flammable limit (% by vol.)

: N/Av

Oxidizing properties None known. **Explosive properties** Not explosive

Vapor pressure N/Av

Vapor density : > 1 (Air = 1.0)

Relative density / Specific gravity

: >1

Solubility in water : insoluble Other solubility(ies) N/Av

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: N/Av

Auto-ignition temperature : N/Av **Decomposition temperature** : N/Av **Viscosity** N/Av Volatiles (% by weight) : 14% Volatile organic Compounds (VOC's)

: 289 g/L

Absolute pressure of container

: N/Ap

Flame projection length : N/Ap

Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.

: Stable under normal conditions. After prolonged storage, may release explosive peroxides in **Chemical stability**

the presence of air. Rate of peroxide formation is not known.

Possibility of hazardous reactions

Hazardous polymerization does not occur. No dangerous reaction known under conditions

of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Do not use in areas without

adequate ventilation. Avoid contact with incompatible materials.

Incompatible materials Strong oxidizing agents; Strong acids; Strong bases

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES Routes of entry skin & eye : YES Routes of entry Ingestion : YES Routes of exposure skin absorption

: NO



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Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

• Mild respiratory irritant. High concentrations of vapors or mists may cause coughing and mild, temporary irritation. Inhalation of fumes may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath.

Sign and symptoms ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sign and symptoms skin

Causes skin irritation. Contact may cause redness, swelling and a painful sensation.

 Direct eye contact may cause slight or mild, transient irritation. Direct eye contact may cause slight redness.

Sign and symptoms eyes

Potential Chronic Health Effects

Prolonged overexposure may cause slight liver and kidney effects, such as increased organ

weights.

Mutagenicity

: No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

 This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations)

(WHMIS 2015). Classification:

Carcinogenicity - Category 2. Suspected of causing cancer. Symptoms may include

persistent coughing, shortness of breath, coughing up blood and wheezing.

Contains: Ethylbenzene.

Ethylbenzene is classified as possibly carcinogenic by IARC (Group 2B) and the ACGIH

(Category A3).

Reproductive effects & Teratogenicity

: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:

Reproductive toxicity - Category 2. Suspected of damaging the unborn child. Symptoms may include reduced fetal weight, delayed ossification and persistent behavioral effects. This product contains Xylene. Xylene may cause fetotoxic effects (e.g. reduced fetal weight, delayed ossification, behavioral effects) at doses which are not maternally toxic, based on

animal data.

Sensitization to material

Not expected to be a skin or respiratory sensitizer.

Specific target organ effects

According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015), this product is not expected to cause target organ toxicity through single or repeated exposures.

Medical conditions aggravated by overexposure

: Pre-existing skin, eye and respiratory disorders.

Synergistic materials Toxicological data : None known or reported by the manufacturer.

: Not classified for acute toxicity based on available data. No data is available on the product

itself. The calculated ATE values for this mixture are:

ATE oral = 22,444 - 23,114 mg/kg ATE inhalation (vapors) = 134 - 149 mg/L/4H

ATE IIII alation (vapors) = 134 - 143 mg/L/411

See below for individual ingredient acute toxicity data.



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	LC50 (4hr)	LD ₅₀		
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)	
Copper	> 5.11 mg/L (dust) (No mortality)	> 2500 mg/kg	> 2000 mg/kg	
Xylene	6350 ppm (27.6 mg/L) (vapor)	3253 mg/kg	12 180 mg/kg	
Ethylbenzene	4000 ppm (17.4 mg/L) (vapor)	3500 mg/kg	15 380 mg/kg	
2-Methoxy-1-methylethyl acetate	> 5320 ppm (28.7 mg/L) (vapor)	8532 mg/kg	> 19 200 mg/kg	

Other important toxicological hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: Harmful to aquatic life. No data is available on the product itself. The product contains the following substances which are hazardous for the environment: Xylene; Ethylbenzene. Should not be released into the environment.

This product also contains: Copper. The acute toxicity of copper to aquatic species varies drastically by the chemical form and correlates with the availability of free ionic copper. Aquatic toxicity is highly variable not only by organism but with physical and chemical characteristics of the water itself.

See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

L P	0.10.11	Toxicity to Fish				
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor		
Copper	7440-50-8	N/Av	N/Av	None.		
Xylene	1330-20-7	8.2 mg/L (Rainbow trout)	N/Av	None.		
Ethylbenzene	100-41-4	4.2 mg/L (Rainbow trout)	1.13 mg/L (30 days) (QSAR)	None.		
2-Methoxy-1-methylethyl acetate	108-65-6	> 100 mg/L (Japanese ricefish)	N/Av	None.		

<u>Ingredients</u>	CAS No	Toxicity to Daphnia				
		EC50 / 48h	NOEC / 21 day	M Factor		
Copper	7440-50-8	N/Av	N/Av	None.		
Xylene	1330-20-7	3.2 - 9.56 mg/L (Daphnia magna)	N/Av	None.		
Ethylbenzene	100-41-4	1.81 mg/L (Daphnia magna)	N/Av	None.		
2-Methoxy-1-methylethyl acetate	108-65-6	373 mg/L (Daphnia magna)	> 100 mg/L	None.		



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<u>Ingredients</u>	CAS No	Toxicity to Algae				
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor		
Copper	7440-50-8	N/Av	N/Av	None.		
Xylene	1330-20-7	3.2 - 4.9 mg/L/72hr (Green algae)	N/Av	None.		
Ethylbenzene	100-41-4	3.6 mg/L/96hr (Green algae)	3.4 mg/L/96hr	None.		
2-Methoxy-1-methylethyl acetate	108-65-6	> 1000 mg/L/72hr (Green algae)	N/Av	None.		

Persistence and degradability

The product itself has not been tested.

The following ingredients are considered to be readily biodegradable:

2-Methoxy-1-methylethyl acetate.

Contains the following chemicals which are considered to be inherently biodegradable:

Xylene; Ethylbenzene.

Contains the following chemicals which are not readily biodegradable: Copper.

Bioaccumulation potential

: The product itself has not been tested. See the following data for ingredient information.

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Xylene (CAS 1330-20-7)	3.12 - 3.2	50 - 58
Ethylbenzene (CAS 100-41-4)	3.15	1.1 - 1.5
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	0.36	N/Av

Mobility in soil

: The product itself has not been tested.

Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Empty containers retain residue (liquid and/or vapor) and can be dangerous. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Methods of Disposal

: Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA

If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.



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SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	UN1866	Resin solution	3	III	₹ <u>₹</u>
49CFR/DOT Additional information		as Limited Quantity when transported in containers no larger t fer to 49 CFR Section 173.150.	than 5.0 Litres; i	n packages	not exceeding 30 kg
TDG	UN1866	RESIN SOLUTION	3	III	3
TDG Additional information		as Limited Quantity when transported in containers no larger t der the TDG, refer to Section 1.17 for additional exemption req			
ICAO/IATA	UN1866	Resin solution	3	III	₹ <u>₩</u>
ICAO/IATA Additional information	Refer to the app shipping this ma	ropriate Packing Instruction, prior to shipping this material. Reterial.	view all State ar	d Operator	Variations, prior to
IMDG	UN1866	RESIN SOLUTION	3	III	3
IMDG Additional information	May be shipped gross mass.	as Limited Quantity when transported in containers no larger t	than 5.0 Litres; i	n packages	not exceeding 30 kg

Special precautions for user

: Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame. - No smoking.

Environmental hazards

: This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

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SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

	TSCA		CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely Hazardous	SARA TITLE III: Sec. 313, 40 CFR 372 Specific Toxic Chemical		
<u>Ingredients</u>	CAS#	Inventory	Quantity(RQ) (40 CFR 117.302):	Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration	
Copper	7440-50-8	Yes	5000 lbs / 2270 kg	None.	Yes	1%	
Xylene	1330-20-7	Yes	100 lb/ 45.4 kg	None.	Yes	1%	
Ethylbenzene	100-41-4	Yes	1000 lb/ 454 kg	None.	Yes	0.1%	
2-Methoxy-1-methylethyl acetate	108-65-6	Yes	None.	None.	No	N/Ap	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

Physical hazards (Flammable liquid)

Health hazards (Skin irritation; Carcinogenicity; Reproductive toxicity)

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	California Proposition 65		State "Right to Know" Lists						
	CAS#	Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Copper	7440-50-8	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Xylene	1330-20-7	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Ethylbenzene	100-41-4	Yes	Cancer	Yes	Yes	Yes	Yes	Yes	Yes
2-Methoxy-1-methylethyl acetate	108-65-6	No	N/Ap	No	No	No	No	No	No

California Proposition 65: This product can expose you to chemicals, which are known to the State of California to cause cancer, and, which are known to the State of California to cause birth defects or other reproductive harm. This product also contains trace amounts of: Toluene (< 0.01%).

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian National Pollutant Release Inventory (NPRI): This product contains the following substances listed on the NPRI:

Copper (Part 1, Group A Substance)

Xylene (Part 1: Group A; Part 5: Isomer Groups)

Ethylbenzene (Part 1, Group A Substance)

2-Methoxy-1-methylethyl acetate (Part 5: Other groups and mixtures)

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.



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International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS#	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
Copper	7440-50-8	231-159-6	Present	Present	Not listed	KE-08896	Present	HSR002948
Xylene	1330-20-7	215-535-7	Present	Present	(3)-60; (3)-3	KE-35427	Present	HSR000983
Ethylbenzene	100-41-4	202-849-4	Present	Present	(3)-60; (3)-28	KE-13532	Present	HSR001151
2-Methoxy-1-methylethyl acetate	108-65-6	203-603-9	Present	Present	(2)-3144	KE-23315	Present	HSR001219

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists

AICS: Australian Inventory of Chemical Substances AIHA: American Industrial Hygiene Association

ATE: Acute Toxicity Estimate

CA: California

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of

1980

CFR: Code of Federal Regulations CSA: Canadian Standards Association DOT: Department of Transportation EC50: Effective Concentration 50%

EINECS: European Inventory of Existing Commercial chemical Substances

ENCS: Existing and New Chemical Substances EPA: Environmental Protection Agency HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IBC: Intermediate Bulk Container

ICAO: International Civil Aviation Organisation IECSC: Inventory of Existing Chemical Substances IMDG: International Maritime Dangerous Goods

Inh: Inhalation

IOC: Inventory of Chemicals ISHL: Industrial Safety Health Law

KECI: Korean Existing Chemicals Inventory **KECL: Korean Existing Chemicals List**

LC: Lethal Concentration

LD: Lethal Dose MA: Massachusetts MN: Minnesota N/Ap: Not Applicable N/Av: Not Available

NIOSH: National Institute of Occupational Safety and Health

NJ: New Jersey

NOEC: No observable effect concentration NTP: National Toxicology Program

OECD: Organisation for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

PA: Pennsylvania

PEL: Permissible exposure limit

PICCS: Philippine Inventory of Chemicals and Chemical Substances

RCRA: Resource Conservation and Recovery Act



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RI: Rhode Island

RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act

SCBA: Self-Contained Breathing Apparatus

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act

WEEL: Workplace Environmental Exposure Level

WHMIS: Workplace Hazardous Materials Identification System

References

- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2018.
- 2. International Agency for Research on Cancer Monographs, searched 2018.
- Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2018 (Chempendium, HSDB and RTECs).
- 4. Material Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists March 2015 version.
- 6. California Proposition 65 List October 26, 2018 version.
- 7. OECD The Global Portal to Information on Chemical Substances eChemPortal, 2018.

Preparation Date (mm/dd/yyyy)

: 11/21/2018

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

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