

CHO-SHIELD® 2056

52-03-2056-0000; 52-03-2056-0000A

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label

: **CHO-SHIELD® 2056**

Other means of identification : 52-03-2056-0000; 52-03-2056-0000A

Recommended use of the chemical and restrictions on use

: Conductive, silver-plated copper acrylic coating.  
Restriction on use: None known

Chemical family

: Mixture of : Solvent; Ether; Metals

SDS number

: PHC-023

Name, address, and telephone number of the manufacturer:

**Parker Hannifin Corp.**

Chomerics Division  
77 Dragon Court  
Woburn, MA, USA  
01888

Manufacturer's Telephone # : (781) 935 4850

Name, address, and telephone number of the supplier:

Refer to manufacturer

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

### SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Liquid - red. Solvent odour.

Most important hazards:

Highly flammable liquid and vapour. May be ignited by open flame.

Causes serious eye irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Avoid release to the environment. See Section 12 for more environmental information.

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:

Flammable liquid - Category 2

Serious eye damage/eye irritation - Category 2

Specific target organ toxicity, single exposure - Category 3

Label elements

Hazard pictogram(s)



Signal Word

DANGER!

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### Hazard statement(s)

Highly flammable liquid and vapor.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.  
May cause respiratory irritation.

### Precautionary statement(s)

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.  
Take precautionary measures against static discharge.  
Use only non-sparking tools.  
Use explosion-proof electrical and ventilating equipment.  
Avoid breathing mist or vapor.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves and eye/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
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 advice/attention.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.  
Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local regulation.

### Other hazards

Other hazards which do not result in classification:

After prolonged storage, may release explosive peroxides in the presence of air. Rate of peroxide formation is not known. Burning produces obnoxious and toxic fumes. Mild respiratory irritant. Inhalation of fumes may result in metal fume fever, a flu-like illness. May cause gastrointestinal irritation. Silver in the form of a finely divided dust may cause discoloration in contact with skin, and argyrosis in case of inhalation. 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)
Butanone	Butanone Methyl acetone	78-93-3	30.0 - 40.0
1-Methoxy-2-Propanol	1-Methoxy-2-Propanol alpha-PGME	107-98-2	15.0 - 40.0
Copper	Not available.	7440-50-8	10.0 - 30.0
2-Methoxy-1-methylethyl acetate	2-Methoxy-1-methylethyl acetate PGMEA	108-65-6	3.0 - 7.0
n-Propyl acetate		109-60-4	3.0 - 7.0
Silver	Silver metal Argentum	7440-22-4	3.0 - 7.0
Acetone	2-Propanone Methyl ketone	67-64-1	1.0 - 5.0

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

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### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt, seek medical advice.
- Inhalation* : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stops, provide artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.
- Skin contact* : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. When symptoms persist or in all cases of doubt, seek medical advice.
- Eye contact* : 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 advice/attention.

#### Most important symptoms and effects, both acute and delayed

- : Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
- : Causes central nervous system depression. Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects.
- : Mild respiratory irritant. May cause coughing and breathing difficulties.
- : 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 or repeated contact may cause drying, cracking and defatting of the skin.
- : Silver in the form of a finely divided dust may cause discoloration in contact with skin, and argyrosis in case of inhalation.
- : 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 (CO<sub>2</sub>); Dry chemical; Alcohol resistant foam; Water fog

##### *Unsuitable extinguishing media*

- : Do not use a solid water stream as it may scatter and spread fire.

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

- : After prolonged storage, may release explosive peroxides in the presence of air. Rate of peroxide formation is not known. The pressure in sealed containers can increase under the influence of heat. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Metal oxides; formaldehyde; acetic acid.

#### Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable liquids - Category 2

#### Hazardous combustion products

- : Carbon oxides; Metal oxides; acetic acid; Formaldehyde.

#### 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*

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- : 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. Restrict access to area until completion of clean-up. Wear appropriate protective equipment.

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

#### 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. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. 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.

#### 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): See section 15.

In Canada: For 24-hour emergency assistance, call: 1-613-996-6666 (CANUTEC).

### SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling

- : Use only outdoors or in a well-ventilated area. Wear suitable protective equipment during handling. Wear protective gloves and eye/face protection. Avoid breathing vapours. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and open flame - 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 vapour) 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. Do not store near any incompatible materials (see Section 10).

**Incompatible materials** : Strong oxidizing agents; Strong acids; Strong bases; Halogenated compounds; Reactive metals

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### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Limits:</b>				
<b>Chemical Name</b>	<b>ACGIH TLV</b>		<b>OSHA PEL</b>	
	<b>TWA</b>	<b>STEL</b>	<b>PEL</b>	<b>STEL</b>
Butanone	200 ppm	300 ppm	200 ppm (590 mg/m <sup>3</sup> )	N/Av
1-Methoxy-2-Propanol	50 ppm	100 ppm	N/Av	N/Av
Copper	0.2 mg/m <sup>3</sup> (fume); 1 mg/m <sup>3</sup> (Dust and mist)	N/Av	0.1 mg/m <sup>3</sup> (fume); 1 mg/m <sup>3</sup> (Dust and mist)	N/Av
2-Methoxy-1-methylethyl acetate	50 ppm (AIHA WEEL)	N/Av	N/Av	N/Av
n-Propyl acetate	200 ppm	250 ppm	200 ppm (840 mg/m <sup>3</sup> )	N/Av
Silver	0.1 mg/m <sup>3</sup> (dust and fume)	N/Av	0.01 mg/m <sup>3</sup>	N/Av
Acetone	250 ppm	500 ppm	1000 ppm (2400 mg/m <sup>3</sup> )	N/Av

#### Exposure controls

##### Ventilation and engineering measures

- : Use only outdoors or in a well-ventilated area. 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 ventilation (typically 10 air changes per hour) should be sufficient to control airborne levels. Use explosion-proof electrical and ventilating equipment. In case of insufficient ventilation wear suitable respiratory equipment.

##### Respiratory protection

- : In case of insufficient ventilation wear suitable respiratory equipment. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used. Advice should be sought from respiratory protection specialists.

##### Skin protection

- : Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

##### Eye / face protection

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

##### Other protective equipment

- : Depending on conditions of use, an impervious apron should be worn. 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 mist or vapor. 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	: Liquid - red
Odour	: solvent
Odour threshold	: N/Av
pH	: N/Av
Melting Point/Freezing point	: N/Av

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### Initial boiling point and boiling range

: > 79.6°C (based on ingredients)

**Flash point** : - 5°C (based on ingredients)

**Flashpoint (Method)** : closed cup

**Evaporation rate (BuAe = 1)** : N/Av

**Flammability (solid, gas)** : Not applicable.

**Lower flammable limit (% by vol.)**

: N/Av

**Upper flammable limit (% by vol.)**

: N/Av

**Oxidizing properties** : None.

**Explosive properties** : Not explosive

**Vapour pressure** : N/Av

**Vapour density** : > 1 (Air = 1)

**Relative density / Specific gravity**

: 1.0

**Solubility in water** : slightly soluble

**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** : 14 - 19 sec (Zahn cup #2)

**Volatiles (% by weight)** : 75%

**Volatile organic Compounds (VOC's)**

: 719 g/L

**Absolute pressure of container**

: N/Av

**Flame projection length** : N/Av

**Other physical/chemical comments**

: No additional information.

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity** : Not normally reactive.

**Chemical stability** : Stable under normal conditions. After prolonged storage, may release explosive peroxides in the presence of air. Rate of peroxide formation is not known.

**Possibility of hazardous reactions**

: Hazardous polymerization does not occur.

**Conditions to avoid** : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

**Incompatible materials** : Strong oxidizers. Strong acids Strong bases Halogenated materials. Reactive metals.

**Hazardous decomposition products**

: None known.

Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Metal oxides; formaldehyde; acetic acid.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure:

**Routes of entry inhalation** : YES

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Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption  
: NO

### Potential Health Effects:

#### Signs and symptoms of short-term (acute) exposure

##### *Sign and symptoms Inhalation*

: May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. May cause drowsiness or dizziness. High concentrations may cause nausea, headache, dizziness and incoordination. 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*

: Direct skin contact may cause slight or mild, transient irritation.

##### *Sign and symptoms eyes*

: Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

#### Potential Chronic Health Effects

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin. Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.

#### Mutagenicity

: Contains no ingredient listed as a mutagen.

#### Carcinogenicity

: Contains no ingredient listed as a carcinogen.

#### Reproductive effects & Teratogenicity

: Contains no ingredient listed as toxic to reproduction.

#### Sensitization to material

: Not expected to be a skin or respiratory sensitizer.

#### Specific target organ effects

: 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: Specific target organ toxicity, single exposure - Category 3 (narcotic effects). May cause drowsiness or dizziness. Specific target organ toxicity, single exposure - Category 3 (respiratory). May cause respiratory irritation.

Not classified as a specific target organ toxicity - repeated exposure.

#### Medical conditions aggravated by overexposure

: None known or reported by the manufacturer.

#### Synergistic materials

: None known.

#### Toxicological data

: No data is available on the product itself. The calculated ATE values for this mixture are:

ATE oral = 5751 mg/kg

ATE inhalation (vapours) = 58.4 mg/L/4H

See below for individual ingredient acute toxicity data.

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<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u> <u>inh, rat</u>	<u>LD<sub>50</sub></u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Butanone	11 300 ppm (33.3 mg/L) (vapour)	2740 mg/kg	6480 mg/kg
1-Methoxy-2-Propanol	15 000 ppm (55.3 mg/L) (vapour)	4016 mg/kg	> 2000 mg/kg (No mortality)
Copper	> 5.11 mg/L (dust) (No mortality)	> 2500 mg/kg	> 2000 mg/kg
2-Methoxy-1-methylethyl acetate	> 5320 ppm (28.7 mg/L) (vapour)	8532 mg/kg	> 19 200 mg/kg
n-Propyl acetate	32 mg/L (vapour)	8700 mg/kg	> 17 800 mg/kg
Silver	> 5.16 mg/L (dust) (No mortality)	> 2000 mg/kg (No mortality)	> 2000 mg/kg (No mortality)
Acetone	30 000 ppm (71 mg/L) (vapour)	5800 mg/kg	> 15 800 mg/kg

### Other important toxicological hazards

- : Silver in the form of a finely divided dust may cause discoloration in contact with skin, and argyrosis in case of inhalation.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

- : No data is available on the product itself. Should not be released into the environment. 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:

<u>Ingredients</u>	<u>CAS #</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Butanone	78-93-3	2993 mg/L (Fathead minnow)	No information available.	None.
1-Methoxy-2-Propanol	107-98-2	20 800 mg/L (Fathead minnow)	> 1000 mg/L (estimated)	None.
Copper	7440-50-8	No information available.	No information available.	None.
2-Methoxy-1-methylethyl acetate	108-65-6	161 mg/L (Fathead minnow)	No information available.	None.
n-Propyl acetate	109-60-4	60 mg/L (Fathead minnow)	No information available.	None.
Silver	7440-22-4	No information available.	No information available.	None.
Acetone	67-64-1	6210 mg/L (Fathead minnow)	No information available.	None.

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<u>Ingredients</u>	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Butanone	78-93-3	308 mg/L (Daphnia magna)	No information available.	None.
1-Methoxy-2-Propanol	107-98-2	23 300 mg/L (Daphnia magna)	210 mg/L (estimated)	None.
Copper	7440-50-8	No information available.	No information available.	None.
2-Methoxy-1-methylethyl acetate	108-65-6	408 mg/L (Daphnia magna)	> 100 mg/L	None.
n-Propyl acetate	109-60-4	91.5 mg/L (Daphnia magna)	No information available.	None.
Silver	7440-22-4	No information available.	No information available.	None.
Acetone	67-64-1	15 800 mg/L (Daphnia magna)	1660 mg/L	None.

<u>Ingredients</u>	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Butanone	78-93-3	1972 mg/L/72hr (Green algae)	1240 mg/L/96hr	None.
1-Methoxy-2-Propanol	107-98-2	> 1000 mg/L/96hr (Green algae)	160 mg/L/96hr (estimated)	None.
Copper	7440-50-8	No information available.	No information available.	None.
2-Methoxy-1-methylethyl acetate	108-65-6	> 1000 mg/L/72hr (Green algae)	≥ 1000 mg/L/72hr	None.
n-Propyl acetate	109-60-4	672 mg/L/72hr (Green algae)	83.2 mg/L/72hr	None.
Silver	7440-22-4	No information available.	No information available.	None.
Acetone	67-64-1	7000 mg/L/96hr (Green algae)	No information available.	None.

### Persistence and degradability

- : The product itself has not been tested.
- The following ingredients are considered to be readily biodegradable: Butanone; 1-Methoxy-2-Propanol; Propyl acetate; 2-Methoxy-1-methylethyl acetate; Acetone.
- Contains the following chemicals which are not readily biodegradable: silver; Copper.

### Bioaccumulation potential

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

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Butanone (CAS 78-93-3)	0.29	3.0
1-Methoxy-2-Propanol (CAS 107-98-2)	- 0.49	3.2 (calculated)
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	0.36	No information available.
n-Propyl acetate (CAS 109-60-4)	1.23	3 (estimated)
Acetone (CAS 67-64-1)	0.24	0.65 (Fish)

### Mobility in soil

- : The product itself has not been tested.

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### 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

- Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations.





#### Methods of Disposal

- Empty containers retain residue (liquid and/or vapour) and can be dangerous. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Dispose of in accordance with federal, state 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. Under the RCRA, it is the responsibility of the waste generator to determine the proper waste identification and disposal method.

### SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
ICAO/IATA	UN1263	Paint	3	II	
ICAO/IATA Additional information	Refer to the appropriate Packing Instruction, prior to shipping this material. Review all State and Operator Variations, prior to shipping this material.				
IMDG	UN1263	Paint	3	II	
IMDG Additional information	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass.				
49CFR/DOT	UN1263	Paint	3	II	
49CFR/DOT Additional information	Special provision 149 allows this product to be shipped as a Limited Quantity. Inner package size must not exceed 5 liters (1.3 gallons) with a 30 kg gross per package.				
TDG	UN1263	PAINT	3	II	
TDG Additional information	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass. ERG #128				

**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.

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

: Not applicable.

### SECTION 15 - REGULATORY INFORMATION

#### US Federal Information:

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

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Butanone	78-93-3	Yes	5000 lb/ 2270 kg	None.	No	No
1-Methoxy-2-Propanol	107-98-2	Yes	None.	None.	No	N/Ap
Copper	7440-50-8	Yes	5000 lbs / 2270 kg	None.	Yes	1%
2-Methoxy-1-methylethyl acetate	108-65-6	Yes	None.	None.	No	No
n-Propyl acetate	109-60-4	Yes	None.	None.	No	No
Silver	7440-22-4	Yes	1000 lb/454 kg	None.	Yes	No
Acetone	67-64-1	Yes	5000 lb/ 2270 kg	None.	No	No

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Flammable; Eye irritation; Specific target organ toxicity, single exposure.

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:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Butanone	78-93-3	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
1-Methoxy-2-Propanol	107-98-2	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Copper	7440-50-8	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
2-Methoxy-1-methylethyl acetate	108-65-6	No	N/Ap	No	No	No	No	No	No
n-Propyl acetate	109-60-4	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Silver	7440-22-4	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Acetone	67-64-1	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes

#### Canadian Information:

All components of this product are on the Canadian DSL list. 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:

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECs</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECSC</u>	<u>NewZealand IOC</u>
Butanone	78-93-3	201-159-0	Present	Present	(2)-542	KE-24094	Present	HSR001190
1-Methoxy-2-Propanol	107-98-2	203-539-1	Present	Present	(7)-97; (2)-404	KE-23379	Present	HSR001187
Copper	7440-50-8	231-159-6	Present	Present	Not listed	KE-08896	Present	HSR002948
2-Methoxy-1-methylethyl acetate	108-65-6	203-603-9	Present	Present	(2)-3144	KE-23315	Present	HSR001219
n-Propyl acetate	109-60-4	203-686-1	Present	Present	(2)-727	KE-29778	Present	HSR001217
Silver	7440-22-4	231-131-3	Present	Present	Not listed	KE-31261	Present	HSR003077
Acetone	67-64-1	200-662-2	Present	Present	(2)-542	KE-29367	Present	HSR001070

### SECTION 16. OTHER INFORMATION

#### Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- DOT: Department of Transportation
- EC50: Effective Concentration 50%
- 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
- ICAO: International Civil Aviation Organisation
- IECSC: Inventory of Existing Chemical Substances
- IMDG: International Maritime Dangerous Goods
- Inh: Inhalation
- IOC: Inventory of Chemicals
- KECI: Korean Existing Chemicals Inventory
- KECL: Korean Existing Chemicals List
- LC: Lethal Concentration
- LD: Lethal Dose
- N/Ap: Not Applicable
- N/Av: Not Available
- NIOSH: National Institute of Occupational Safety and Health
- NOEC: No observable effect concentration
- NTP: National Toxicology Program
- OECD: Organisation for Economic Co-operation and Development
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible exposure limit
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- PNOR: Particulates Not Otherwise Regulated
- RTECS: Registry of Toxic Effects of Chemical Substances
- SARA: Superfund Amendments and Reauthorization Act
- SDS: Safety Data Sheet
- STEL: Short Term Exposure Limit
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values

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**References** : TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System  
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices  
2. ECHA - European Chemical Agency  
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, (Chempendium, HSDB and RTECs).  
4. Safety Data Sheets from manufacturer.  
5. US EPA Title III List of Lists  
6. California Proposition 65 List  
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

**Preparation Date (mm/dd/yyyy)**

: 11/11/2019

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: 29/07/2021

**Revision No.**

: 3

**Revision Information**

: None.

**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

<p><b>Prepared for:</b> Parker Hannifin Corp. Chomerics Division 77 Dragon Court Woburn, MA, U.S.A. 01888 Telephone: (781) 935-4850</p>	
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