

CHO-BOND® 1075

SDS No: PHC-052

SDS Revision Date (mm/dd/yyyy): 10/30/2019

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label

: **CHO-BOND® 1075**

Other means of identification : 50-00-1075-0000; 50-01-1075-0000; 50-02-1075-0000; 50-02-1075-1000;  
50-03-1075-0000; 50-15-1075-1000; 50-99-1075-0000

Recommended use of the chemical and restrictions on use

: Moisture cure adhesive / sealant.  
No restrictions on use known.

Chemical family

: Mixture of: Metal compounds; Silicone elastomer; Silicone; Silica

SDS number

: PHC-052

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

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

Name, address, and telephone number of  
the supplier:

Refer to manufacturer

### SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Medium paste; gray. Mild odor.

Most important hazards:

Causes serious eye irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child.  
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. 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:

Eye damage/irritation - Category 2A

Carcinogenicity - Category 2

Reproductive toxicity - Category 2

Label elements

Hazard pictogram(s)



Signal Word

WARNING!

Hazard statement(s)

Causes serious eye irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child.

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### Precautionary statement(s)

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands and face thoroughly after handling. Wear protective gloves/clothing and eye/face protection.

IF exposed or concerned: Get medical advice/attention.

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.

Store locked up.

Dispose of contents/container in accordance with local regulation.

### Other hazards

Other hazards which do not result in classification:

May slowly hydrolyze in the presence of water to: Methanol. Upon completion of the curing process, these hydrolysis products are no longer released.

Toxic fumes, gases or vapours may evolve on burning. When heated above 150°C in air, may release formaldehyde gas. May be mildly irritating to skin and respiratory system. 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. Silver in the form of a finely divided dust may cause discoloration in contact with skin, and argyrosis in case of inhalation.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	Common name and synonyms	CAS #	Concentration (% by weight)
Aluminum	Not available.	7429-90-5	45.0 - 70.0
Polydimethylsiloxane	Dimethyl Siloxane, Hydroxy-terminated	70131-67-8	10.0 - 25.0
silver	Silver metal Argentum	7440-22-4	7.0 - 13.0
Octamethyltrisiloxane	Not available.	107-51-7	5.0 - 10.0
Trimethoxymethylsilane	Methyltrimethoxysilane	1185-55-3	0.5 - 1.5
Methanol	Carbinol Methyl alcohol Methyl hydrate	67-56-1	0.1 - 0.3
titanium dioxide	Anatase Titanic acid anhydride	13463-67-7	0.1 - 0.2
The following ingredient may be released from the product only when heated above 150°C: formaldehyde			Not known.
	Methanal Methyl Aldehyde Methylene oxide	50-00-0	

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.

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- Skin contact* : For skin contact, wash with soap and water while removing contaminated clothing. If irritation or symptoms develop, seek medical attention. Wash contaminated clothing before reuse.
- Eye contact* : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Flush eyes with water for at least 15 minutes. 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.
  - : Suspected of causing cancer if inhaled. Symptoms may include persistent coughing, shortness of breath, coughing up blood and wheezing.
  - : Suspected of damaging fertility or the unborn child. Symptoms may include reduced fetal weight, delayed ossification and persistent behavioural effects. Symptoms may also include significant reductions in mean live litter sizes and mean number of pups born.
  - : May be mildly irritating to skin and respiratory system. May cause coughing and breathing difficulties. Direct skin contact may cause temporary redness.
  - : 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.
  - : May slowly hydrolyze in the presence of water to: Methanol. Methanol is considered to be dangerous. Upon completion of the curing process, these hydrolysis products are no longer released.
  - : Silver in the form of a finely divided dust may cause discoloration in contact with skin, and argyrosis in case of inhalation.
- When heated above 150°C in air, may release formaldehyde gas. Formaldehyde is an eye and throat irritant and acute toxicant. Formaldehyde may cause sensitisation by skin contact. Formaldehyde may cause mutations to non-reproductive (somatic) cells, based on animal data. Formaldehyde is classified as carcinogenic.

### Indication of any immediate medical attention and special treatment needed

- : Provide general supportive measures and treat symptomatically. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing media

#### *Suitable extinguishing media*

- : Carbon dioxide (CO<sub>2</sub>); Dry chemical; Alcohol resistant foam.

#### *Unsuitable extinguishing media*

- : May react with water. Do not use water if possible.

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

- : May react with water, generating heat. May slowly hydrolyze in the presence of water to: Methanol. Upon completion of the curing process, these hydrolysis products are no longer released. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Toxic fumes, gases or vapors may evolve on burning.

### Flammability classification (OSHA 29 CFR 1910.106)

- : Not classified as flammable.

### Hazardous combustion products

- : Carbon oxides; Metal oxides; formaldehyde; Silicon oxides; Other unidentified organic compounds

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### 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 get water inside containers. 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. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** : Prevent product from entering drains, sewers, waterways and soil.

### 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 inert, non-combustible absorbents to assist the pick up of material. 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): silver (1000 lbs / 454 kg); Methanol (5000 lbs / 2270 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.  
Use with adequate ventilation. Wear suitable protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Protect from moisture. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling. Empty containers retain residue 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. Do not store near any incompatible materials (see Section 10). Keep containers dry and tightly closed to avoid moisture absorption and contamination.

**Incompatible materials** : Strong oxidizing agents; Strong acids; Strong bases; Water

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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>
Aluminum	1 mg/m <sup>3</sup> (respirable)	N/Av	15 mg/m <sup>3</sup> (total dust); 5 mg/m <sup>3</sup> (respirable)	N/Av
Polydimethylsiloxane	N/Av	N/Av	N/Av	N/Av
silver	0.1 mg/m <sup>3</sup> (dust and fume)	N/Av	0.01 mg/m <sup>3</sup>	N/Av
Octamethyltrisiloxane	N/Av	N/Av	N/Av	N/Av
Trimethoxymethylsilane	N/Av	N/Av	N/Av	N/Av
Methanol	200 ppm (skin)	250 ppm (skin)	200 ppm (260 mg/m <sup>3</sup> )	N/Av
titanium dioxide	10 mg/m <sup>3</sup>	N/Av	15 mg/m <sup>3</sup> (total dust)	N/Av
formaldehyde	0.3 ppm (Ceiling)	N/Av	0.75 ppm	2 ppm

#### 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. 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. Chemical splash goggles are recommended. 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 dust, fume 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** : Medium paste; gray
- Odour** : Mild odor.
- Odour threshold** : N/Av
- pH** : N/Av
- Melting Point/Freezing point** : N/Av

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### Initial boiling point and boiling range

: > 102°C (216°F) (based on ingredients)

**Flash point** : > 93.3°C (200°F) (based on ingredients)

**Flashpoint (Method)** : closed cup

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

**Flammability (solid, gas)** : Not considered flammable.

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

: N/Av

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

: N/Av

**Oxidizing properties** : None known.

**Explosive properties** : Not explosive

**Vapour pressure** : N/Av

**Vapour density** : N/Av

**Relative density / Specific gravity**

: > 1

**Solubility in water** : insoluble. May react with water.

**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)** : N/Av

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

: N/Av

**Absolute pressure of container**

: N/Av

**Flame projection length** : N/Av

**Other physical/chemical comments**

: No additional information.

## SECTION 10. STABILITY AND REACTIVITY

**Reactivity** : May react with water. May slowly hydrolyze in the presence of water to: Methanol. Upon completion of the curing process, these hydrolysis products are no longer released.

**Chemical stability** : Stable under normal conditions. When heated above 150°C in air, may release formaldehyde gas.

**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. Avoid excessive moisture.

**Incompatible materials** : Strong oxidizing agents; Strong acids; Strong bases; Water

**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

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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*

- : 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. Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde causes severe respiratory irritation, lung inflammation and pulmonary edema.

##### *Sign and symptoms ingestion*

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

##### *Sign and symptoms skin*

- : May cause mild skin irritation. Direct skin contact may cause temporary redness.

##### *Sign and symptoms eyes*

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

#### 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. Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde may cause mutations to non-reproductive (somatic) cells, based on animal data.

#### 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. Contains: titanium dioxide. Titanium dioxide is classified as possibly carcinogenic by IARC (Group 2B). Titanium dioxide is suspected of causing cancer by inhalation. The carcinogenic hazard is applicable when dusts are present. Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde is classified as carcinogenic. See below for ingredients present on regulatory lists.

#### 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 fertility or the unborn child. Contains Methanol. Methanol may cause fetotoxic and teratogenic effects at doses which are not maternally toxic, based on animal data.

#### Sensitization to material

- : Not expected to be a skin or respiratory sensitizer. Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde may cause sensitisation by skin contact.

**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

- : None known or reported by the manufacturer.



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### Toxicological data

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

See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u>	<u>LD<sub>50</sub></u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Aluminum	> 2.3 mg/L (dust) (No mortality)	> 2000 mg/kg (No mortality)	N/Av
Polydimethylsiloxane	> 11.59 mg/L (mist)	> 15 400 mg/kg	> 2000 mg/kg
silver	> 5.16 mg/L (dust) (No mortality)	> 2000 mg/kg (No mortality)	> 2000 mg/kg (No mortality)
Octamethyltrisiloxane	> 22.6 mg/L (vapour) (No mortality)	> 2000 mg/kg (No mortality)	> 2000 mg/kg (No mortality)
Trimethoxymethylsilane	> 51.4 mg/L (vapour)	> 9500 mg/kg	> 9500 mg/kg
Methanol	> 5000 ppm/6H (4.1 mg/L/4H (vapour)	5628 mg/kg (rat) The estimated human lethal dose is: 300 - 1000 mg/kg	> 393 mg/kg (Monkey) 15 800 mg/kg (rabbit)
titanium dioxide	> 6.82 mg/kg (dust) (No mortality)	> 25 000 mg/kg	> 10 000 mg/kg
<b>The following ingredient may be released from the product only when heated above 150°C:</b>			
formaldehyde	287 ppm	800 mg/kg (rat) The estimated human lethal dose is: 317 - 475 mg/kg	300 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.  
May slowly hydrolyze in the presence of water to: Methanol. Methanol is considered to be dangerous. Upon completion of the curing process, these hydrolysis products are no longer released.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

: No data is available on the product itself. Should not be released into the environment. May slowly hydrolyze in the presence of water to: Methanol. Upon completion of the curing process, these hydrolysis products are no longer released.  
Octamethylcyclotetrasiloxane. This product also contains: Silver. The acute toxicity of silver to aquatic species varies drastically by the chemical form and correlates with the availability of free ionic silver. 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.



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### Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Aluminum	7429-90-5	N/Av	N/Av	None.
Polydimethylsiloxane	70131-67-8	N/Av	N/Av	None.
silver	7440-22-4	N/Av	N/Av	None.
Octamethyltrisiloxane	107-51-7	N/Av	N/Av	None.
Trimethoxymethylsilane	1185-55-3	> 110 mg/L (Rainbow trout) (hydrolysis product and/or parent compound)	N/Av	None.
Methanol	67-56-1	15 400 mg/L (Bluegill sunfish)	446.7 mg/L/28-day (Fathead minnow) (QSAR)	None.
titanium dioxide	13463-67-7	> 100 mg/L (Japanese ricefish)	N/Av	None.
formaldehyde	50-00-0	6.7 mg/L (Striped bass)	≥ 48 mg/L/28-day (Japanese ricefish)	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Aluminum	7429-90-5	N/Av	N/Av	None.
Polydimethylsiloxane	70131-67-8	N/Av	N/Av	None.
silver	7440-22-4	N/Av	N/Av	None.
Octamethyltrisiloxane	107-51-7	N/Av	N/Av	None.
Trimethoxymethylsilane	1185-55-3	> 122 mg/L (Daphnia magna) (hydrolysis product and/or parent compound)	N/Av	None.
Methanol	67-56-1	> 10 000 mg/L (Daphnia magna)	208 mg/L (QSAR)	None.
titanium dioxide	13463-67-7	> 100 mg/L (Daphnia magna)	N/Av	None.
formaldehyde	50-00-0	5.8 mg/L (Daphnia magna)	N/Av	None.

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Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Aluminum	7429-90-5	N/Av	N/Av	None.
Polydimethylsiloxane	70131-67-8	N/Av	N/Av	None.
silver	7440-22-4	N/Av	N/Av	None.
Octamethyltrisiloxane	107-51-7	N/Av	N/Av	None.
Trimethoxymethylsilane	1185-55-3	> 120 mg/L/72hr (Green algae) (hydrolysis product and/or parent compound)	120 mg/L/72hr (hydrolysis product and/or parent compound)	None.
Methanol	67-56-1	22 000 mg/L/96hr (Green algae)	N/Av	None.
titanium dioxide	13463-67-7	> 100 mg/L/72hr (Green algae)	N/Av	None.
formaldehyde	50-00-0	14.7 mg/L/24hr (Green algae)	N/Av	None.

### Persistence and degradability

- : The product itself has not been tested.
- The following ingredients are considered to be readily biodegradable: Methanol.
- Contains the following chemicals which are not readily biodegradable: Aluminum; silver; Trimethoxymethylsilane; titanium dioxide; Octamethyltrisiloxane.

### 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)
Octamethyltrisiloxane (CAS 107-51-7)	6.6	3610; 5600 (Fish) (parent compound)
Trimethoxymethylsilane (CAS 1185-55-3)	- 0.67	3.16
Methanol (CAS 67-56-1)	- 0.82 to - 0.64	< 10 (common carp)
formaldehyde (CAS 50-00-0)	0.35	3.0

### 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. This material and its container must be disposed of in a safe way. Refer to protective measures listed in sections 7 and 8.
- Empty containers retain residue 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	None.	Not regulated.	not regulated	none	
49CFR/DOT Additional information	None.				
TDG	None.	Not regulated.	not regulated	none	
TDG Additional information	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				

**Special precautions for user :** Appropriate advice on safety must accompany the package. Keep containers dry and tightly closed to avoid moisture absorption and contamination.

**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.

### SECTION 15 - REGULATORY INFORMATION

#### US Federal Information:

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

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<u>Ingredients</u>	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
Aluminum	7429-90-5	Yes	None.	None.	Yes	1%
Polydimethylsiloxane	70131-67-8	Yes	None.	None.	No	N/Ap
silver	7440-22-4	Yes	1000 lb/454 kg	None.	Yes	1%
Octamethyltrisiloxane	107-51-7	Yes	None.	None.	No	N/Ap
Trimethoxymethylsilane	1185-55-3	Yes	None.	None.	No	N/Ap
Methanol	67-56-1	Yes	5000 lbs / 2270 kg	None.	Yes	1%
titanium dioxide	13463-67-7	Yes	None.	None.	No	N/Ap
formaldehyde	50-00-0	Yes	100 lbs / 45.4 kg	500 lb TPQ	Yes	0.1%

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

Health hazards (Eye 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>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Aluminum	7429-90-5	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Polydimethylsiloxane	70131-67-8	No	N/Ap	No	No	No	No	No	No
silver	7440-22-4	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Octamethyltrisiloxane	107-51-7	No	N/Ap	No	No	Yes	No	No	No
Trimethoxymethylsilane	1185-55-3	No	N/Ap	No	No	No	No	No	No
Methanol	67-56-1	Yes	Developmental	Yes	Yes	Yes	Yes	Yes	Yes
titanium dioxide	13463-67-7	Yes	Cancer (airborne, unbound particles of respirable size)	No	Yes	Yes	Yes	Yes	Yes
formaldehyde	50-00-0	Yes	Cancer (gas)	Yes	Yes	Yes	Yes	Yes	Yes

### 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:

- Aluminum (Part 1, Group A Substance)
- silver (Part 1, Group A Substance)
- Methanol (Part 1, Group A Substance; Part 5: Individual Substances)

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:

<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>
Aluminum	7429-90-5	231-072-3	Present	Present	Not listed	KE-00881	Present	HSR001263 (coated, PGII); HSR001471, HSR001473 (coated, PGIII); HSR001474 (pyrophoric); HSR001472 (uncoated, PGII)
Polydimethylsiloxane	70131-67-8	Polymer	Present	Present	(7)-453; (7)-476	KE-31115	Present	HSR003459
silver	7440-22-4	231-131-3	Present	Present	Not listed	KE-31261	Present	HSR003077
Octamethyltrisiloxane	107-51-7	203-497-4	Present	Present	(7)-476	98-3-930	Present	May be used as a single component chemical under an appropriate group standard.
Trimethoxymethylsilane	1185-55-3	214-685-0	Present	Present	(2)-2053; (2)-2052	KE-34364	Present	HSR003829
Methanol	67-56-1	200-659-6	Present	Present	(2)-201	KE-23193	Present	HSR001186
titanium dioxide	13463-67-7	236-675-5	Present	Present	(5)-5225; (1)-558	KE-33900	Present	May be used as a single component chemical under an appropriate group standard.
formaldehyde	50-00-0	200-001-8	Present	Present	(2)-482	KE-17074	Present	HSR001584, HSR001162, HSR001518, HSR001583 (dilution)

### SECTION 16. OTHER INFORMATION

#### Legend

: ACGIH: American Conference of Governmental Industrial Hygienists  
AICS: Australian Inventory of Chemical Substances  
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  
IBC: Intermediate Bulk Container

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IECSC: Inventory of Existing Chemical Substances  
IMDG: International Maritime Dangerous Goods  
IOC: Inventory of Chemicals  
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  
RI: Rhode Island  
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  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

### References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2018.
- 2. International Agency for Research on Cancer Monographs, searched 2019.
- 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2019 (Chempendium, HSDB and RTECs).
- 4. Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists - June 2019 version.
- 6. California Proposition 65 List - September 2019 version.
- 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2019.

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: 30/10/2019

### Revision No.

: 2

### Revision Information

: (M)SDS sections updated 3. COMPOSITION/INFORMATION ON INGREDIENTS; 11. Toxicological information; 12. ECOLOGICAL INFORMATION

### Other special considerations for handling

: Provide adequate information, instruction and training for operators.

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<p><b><u>Prepared for:</u></b> Parker Hannifin Corp. Chomerics Division 77 Dragon Court Woburn, MA, U.S.A. 01888 Telephone: (781) 935-4850</p>	 The logo for Parker Chomerics, featuring the word "Parker" in a stylized white font on a black background, followed by a vertical orange line and the word "Chomerics" in a black sans-serif font.
<p><b><u>Prepared by:</u></b> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	 The logo for ICC Compliance Center, featuring the letters "icc" in white inside a blue circle, followed by the words "ComplianceCenter" in a blue sans-serif font.

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