

CHO-SHIELD® 2002, Part C

SDS No: PHC-129

SDS Preparation Date (mm/dd/yyyy): 11/20/2018

Page 1 of 12

## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label

: **CHO-SHIELD® 2002, Part C**

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: Ketones; Triazole

SDS number : PHC-129

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

Clear liquid. Strong Odor.

*Most important hazards:*

Highly flammable liquid and vapor. This material may be ignited by heat, sparks and direct flame.

Causes serious eye damage. May cause respiratory irritation. Inhalation may cause central nervous system depression.

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

Eye damage/irritation - Category 1

Specific target organ toxicity, single exposure - Category 3 (Respiratory irritation; Narcotic effects)

Label elements

Hazard pictogram(s)



Signal Word  
DANGER!

Hazard statement(s)

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

CHO-SHIELD® 2002, Part C

SDS No: PHC-129

SDS Preparation Date (mm/dd/yyyy): 11/20/2018

Page 2 of 12

## SAFETY DATA SHEET

### 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. Use explosion-proof electrical and ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapors. 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 INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

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

Dispose of contents/container in accordance with local regulation.

### Other hazards

*Other hazards which do not result in classification:*

Toxic fumes, gases or vapors may evolve on burning. May form explosive peroxides during prolonged exposure to air and heat. Rate of peroxide formation is not known. May cause mild skin irritation. May cause gastrointestinal irritation.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

| <u>Chemical name</u> | <u>Common name and synonyms</u>                         | <u>CAS #</u> | <u>Concentration (% by weight)</u> |
|----------------------|---|--------------|------------------------------------|
| Methyl ethyl ketone  | Butanone<br>Methyl acetone                              | 78-93-3      | 80.0 - 100.0                       |
| Acetylacetone        | 2,4-Dioxopentane<br>Diacetylmethane<br>2,4-Pentanedione | 123-54-6     | 5.0 - 10.0                         |
| Aromatic triazole    | Not available.  | Proprietary  | 5.0 - 10.0                         |

The exact concentrations and/or specific chemical identities 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 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. Flush eyes with water for at least 15 minutes. Immediately call a POISON CENTER or doctor/physician.

CHO-SHIELD® 2002, Part C

SDS No: PHC-129

SDS Preparation Date (mm/dd/yyyy): 11/20/2018

Page 3 of 12

## SAFETY DATA SHEET

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

- : Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause irreversible eye damage.
- May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects.
- May cause mild skin irritation. Exposure may cause temporary irritation, redness or discomfort.
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

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

- : Immediate medical attention is required. Causes serious eye damage. 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; Water fog

#### *Unsuitable extinguishing media*

- : Water may cause spattering of hot material and may spread burning. Do not use water jet, as this may spread burning material.

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

- : Highly flammable liquid and vapor. This material may be ignited by heat, sparks and direct 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. Toxic fumes may be released during a fire.

### Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable liquid - Category 2

### Hazardous combustion products

- : Carbon oxides; Nitrogen oxides (NO<sub>x</sub>); 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. 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

- : Avoid release to the environment. Prevent product from entering drains, sewers, waterways and soil.

CHO-SHIELD® 2002, Part C

SDS No: PHC-129

SDS Preparation Date (mm/dd/yyyy): 11/20/2018

Page 4 of 12

## SAFETY DATA SHEET

### 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 and equipment in the clean-up process. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Pick up and transfer to properly labeled containers. Do not use combustible absorbents, such as sawdust. 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): Methyl ethyl ketone (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

- : Use only outdoors or in a well-ventilated area. Wear suitable protective equipment during handling. Wear protective gloves and eye/face protection. Avoid breathing 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. Keep away from incompatibles.

### Incompatible materials

- : Strong oxidizing agents; Strong acids; Strong alkalis; Halogenated compounds

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| <b><u>Exposure Limits:</u></b> |                         |                    |                                  |                    |
|--------------------------------|-------------------------|--------------------|----------------------------------|--------------------|
| <b><u>Chemical Name</u></b>    | <b><u>ACGIH TLV</u></b> |                    | <b><u>OSHA PEL</u></b>           |                    |
|                                | <b><u>TWA</u></b>       | <b><u>STEL</u></b> | <b><u>PEL</u></b>                | <b><u>STEL</u></b> |
| Methyl ethyl ketone            | 200 ppm                 | 300 ppm            | 200 ppm (590 mg/m <sup>3</sup> ) | N/Av               |
| Acetylacetone                  | 25 ppm (skin)           | N/Av               | N/Av                             | N/Av               |
| Aromatic triazole              | N/Av                    | N/Av               | N/Av                             | 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. Use explosion-proof electrical and ventilating equipment. In case of insufficient ventilation wear suitable respiratory equipment.

CHO-SHIELD® 2002, Part C

SDS No: PHC-129

SDS Preparation Date (mm/dd/yyyy): 11/20/2018

Page 5 of 12

## SAFETY DATA SHEET

- Respiratory protection** : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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 (29CFR 1910.134). 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. Wear sufficient clothing to prevent skin contact. 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 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** : Clear liquid.
- Odor** : strong
- Odor threshold** : N/Av
- pH** : N/Av
- Melting/Freezing point** : N/Av
- Initial boiling point and boiling range** : > 79.6°C (175.3°F) (based on ingredients)
- Flash point** : - 5°C (23°F) (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 known.
- Explosive properties** : Not explosive
- Vapor pressure** : N/Av
- Vapor density** : > 1 (Air = 1.0)
- Relative density / Specific gravity** : > 1
- Solubility in water** : Appreciable.
- 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)** : 541 g/L
- Absolute pressure of container** : N/Ap

CHO-SHIELD® 2002, Part C

SDS No: PHC-129

SDS Preparation Date (mm/dd/yyyy): 11/20/2018

Page 6 of 12

## SAFETY DATA SHEET

Flame projection length : N/Ap  
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 oxidizing agents; Strong acids; Strong alkalis; Halogenated compounds

#### 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

: YES

#### 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. Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects.

###### *Sign and symptoms ingestion*

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

###### *Sign and symptoms skin*

: May cause mild skin irritation. Exposure may cause temporary irritation, redness or discomfort. Can be absorbed through skin.

###### *Sign and symptoms eyes*

: Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling and blurred vision. May cause irreversible eye damage.

##### Potential Chronic Health Effects

: Prolonged or repeated skin contact may cause drying and irritation.

##### Mutagenicity

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

##### Carcinogenicity

: Not expected to have carcinogenic effects. No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

CHO-SHIELD® 2002, Part C

SDS No: PHC-129

SDS Preparation Date (mm/dd/yyyy): 11/20/2018

Page 7 of 12

## SAFETY DATA SHEET

### Reproductive effects & Teratogenicity

: This product is not expected to cause reproductive or developmental effects.

### 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. May cause respiratory irritation.  
May cause drowsiness or dizziness.

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 repeated exposures.

### Medical conditions aggravated by overexposure

: Pre-existing skin, eye, respiratory and central nervous system disorders.

### Synergistic materials

: None known or reported by the manufacturer.

### Toxicological data

: This product is not classified as an acute toxicity hazard. There is no data available for this product. The calculated ATE values for this mixture are:

ATE oral = 2158 mg/kg

ATE inhalation (vapors) = 24.8 mg/L/4H

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> |
| Methyl ethyl ketone  | 11 300 ppm (33.3 mg/L (vapor)) | 2740 mg/kg             | 6480 mg/kg              |
| Acetylacetone        | 1250 ppm (5.1 mg/L) (vapor)    | 570 mg/kg              | 790 mg/kg               |
| Aromatic triazole    | N/Av                           | 3200 mg/kg             | N/Av                    |

### Other important toxicological hazards

: None known or reported by the manufacturer.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

: No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

See the following tables for individual ingredient ecotoxicity data.

CHO-SHIELD® 2002, Part C

SDS No: PHC-129

SDS Preparation Date (mm/dd/yyyy): 11/20/2018

Page 8 of 12

## SAFETY DATA SHEET

### Ecotoxicity data:

| <u>Ingredients</u>  | CAS No      | Toxicity to Fish             |               |          |
|---------------------|-------------|------------------------------|---------------|----------|
|                     |             | LC50 / 96h                   | NOEC / 21 day | M Factor |
| Methyl ethyl ketone | 78-93-3     | 2993 mg/L (Fathead minnow)   | N/Av          | None.    |
| Acetylacetone       | 123-54-6    | 60.1 mg/L (Bluegill sunfish) | N/Av          | None.    |
| Aromatic triazole   | Proprietary | N/Av                         | N/Av          | None.    |

| <u>Ingredients</u>  | CAS No      | Toxicity to Daphnia       |               |          |
|---------------------|-------------|---------------------------|---------------|----------|
|                     |             | EC50 / 48h                | NOEC / 21 day | M Factor |
| Methyl ethyl ketone | 78-93-3     | 308 mg/L (Daphnia magna)  | N/Av          | None.    |
| Acetylacetone       | 123-54-6    | 34.4 mg/L (Daphnia magna) | N/Av          | None.    |
| Aromatic triazole   | Proprietary | N/Av                      | N/Av          | None.    |

| <u>Ingredients</u>  | CAS No      | Toxicity to Algae            |                   |          |
|---------------------|-------------|------------------------------|-------------------|----------|
|                     |             | EC50 / 96h or 72h            | NOEC / 96h or 72h | M Factor |
| Methyl ethyl ketone | 78-93-3     | 1972 mg/L/72hr (Green algae) | 1240 mg/L/96hr    | None.    |
| Acetylacetone       | 123-54-6    | 8.36 mg/L/72hr (Green algae) | 3.2 mg/L/72hr     | None.    |
| Aromatic triazole   | Proprietary | N/Av                         | N/Av              | None.    |

### Persistence and degradability

- : The product itself has not been tested.  
The following ingredients are considered to be readily biodegradable: Methyl ethyl ketone; Acetyl acetone.

### 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> |
|-----------------------------------|--|--------------------------------------|
| Methyl ethyl ketone (CAS 78-93-3) | 0.29   | 3.0                                  |
| Acetylacetone (CAS 123-54-6)      | 0.68   | 3.16 (calculated)                    |

### 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.



CHO-SHIELD® 2002, Part C

SDS No: PHC-129

SDS Preparation Date (mm/dd/yyyy): 11/20/2018





Page 9 of 12

## SAFETY DATA SHEET

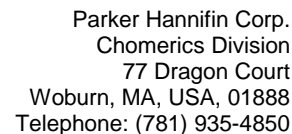
### SECTION 13. DISPOSAL CONSIDERATIONS

- 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.

### SECTION 14. TRANSPORT INFORMATION

| Regulatory Information                  | UN Number   | UN proper shipping name   | Transport hazard class(es) | Packing Group | Label   |
|---|---|---|----------------------------|---------------|---|
| 49CFR/DOT                               | UN1993  | Flammable Liquids, n.o.s. (Methyl ethyl ketone; Acetyl acetone) | 3                          | II            |  |
| <b>49CFR/DOT Additional information</b> | May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass. Refer to 49 CFR Section 173.150.  |   |                            |               |   |
| TDG                                     | UN1993  | FLAMMABLE LIQUID, N.O.S. (Methyl ethyl ketone; Acetyl acetone)  | 3                          | II            |  |
| <b>TDG Additional information</b>       | May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass. Under the TDG, refer to Section 1.17 for additional exemption requirements, if shipping under this exemption. |   |                            |               |   |
| ICAO/IATA                               | UN1993  | Flammable liquid, n.o.s. (Methyl ethyl ketone; Acetyl acetone)  | 3                          | II            |  |
| <b>ICAO/IATA Additional information</b> | Refer to the appropriate Packing Instruction, prior to shipping this material. Review all State and Operator Variations, prior to shipping this material.   |   |                            |               |   |
| IMDG                                    | UN1993  | FLAMMABLE LIQUID, N.O.S. (Methyl ethyl ketone; Acetyl acetone)  | 3                          | II            |  |
| <b>IMDG Additional information</b>      | May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass.   |   |                            |               |   |

- 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.



SDS No: PHC-129

Page 10 of 12

## SECTION 15 - REGULATORY INFORMATION

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

| <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 |
| Methyl ethyl ketone | 78-93-3     | Yes            | 5000 lb/ 2270 kg                                 | None.  | No  | N/Ap                     |
| Acetylacetone       | 123-54-6    | Yes            | None.  | None.  | No  | N/Ap                     |
| Aromatic triazole   | Proprietary | N/Av           | None.  | None.  | No  | N/Ap                     |

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.

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   |
| Methyl ethyl ketone | 78-93-3     | No                        | N/Ap             | Yes                         | Yes  | Yes  | Yes  | Yes  | Yes  |
| Acetylacetone       | 123-54-6    | No                        | N/Ap             | No                          | Yes  | No   | Yes  | Yes  | No   |
| Aromatic triazole   | Proprietary | No                        | N/Ap             | N/Av                        | N/Av | N/Av | N/Av | N/Av | N/Av |

Canadian National Pollutant Release Inventory (NPRI): This product contains the following substances listed on the NPRI: Methyl ethyl ketone (Part 1, Group A Substance; Part 5: Individual Substances)

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

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

[illegible]

CHO-SHIELD® 2002, Part C

SDS No: PHC-129

SDS Preparation Date (mm/dd/yyyy): 11/20/2018

Page 11 of 12

## SAFETY DATA SHEET

### SECTION 16. OTHER INFORMATION

#### Legend

: ACGIH: American Conference of Governmental Industrial Hygienists  
AICS: Australian Inventory of Chemical Substances  
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  
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  
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  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

CHO-SHIELD® 2002, Part C

SDS No: PHC-129

SDS Preparation Date (mm/dd/yyyy): 11/20/2018

Page 12 of 12

## SAFETY DATA SHEET

### 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 2018.
- 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb 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)

: 11/20/2018

### Other special considerations for handling

: Provide adequate information, instruction and training for operators.

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