



Parker Hannifin Ltd., Engineered Materials Group
Chomerics Division Europe
Unit 6 Century Point Halifax Road
High Wycombe Bucks, HP12 3SL
United Kingdom,
Telephone: 044 (0) 1494 455 400

CHO-THERM® 1674

SDS No: PHC-316 EU

SDS Revision Date (dd/mm/yyyy): 21/09/2023

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SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : CHO-THERM® 1674

Product Code(s) : 1674

SDS No. : PHC-316 EU

1.2 Relevant identified uses of the substance or mixture and uses advised against

- : Thermally conductive elastomer insulator pad. May be supplied with a pressure sensitive adhesive (PSA) coating on one or both sides.
- Use pattern: professional use.
- No restrictions on use known.

1.3 Details of the supplier of the safety data sheet:

Parker Hannifin Manufacturing France SAS

ZAC des Epineaux
7 avenue Louis Blériot
95740 Frépillon
France

Email: parker.france@parker.com

Website: www.parkerfrance.fr

Telephone : 033 (01) 34 32 39 00

1.4 Emergency Telephone Number

- : INFOTRAC: (800) 535-5053 (Within Continental US and Canada); + 001 (352) 323-3500 (International)
- Poisons Information Centre
- France +33383852192
- Germany +493018412-0
- The United Kingdom NHS 111
- Italy
- 06 68593726 (CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza - Roma) 800 183459 (Az. Osp. Univ. Foggia - Foggia)
- 081 5453333 (Az. Osp. "A. Cardarelli" - Napoli)
- 06 49978000 (CAV Policlinico "Umberto I" - Roma)
- 06 3054343 (CAV Policlinico "A. Gemelli" - Roma)
- 055 7947819 (Az. Osp. "Careggi" U.O. Tossicologia Medica - Firenze)
- 0382 24444 (CAV Centro Nazionale di Informazione Tossicologica - Pavia) 02 66101029 (Osp. Niguarda Ca' Granda - Milano)
- 800 883300 (Azienda Ospedaliera Papa Giovanni XXII - Bergamo)

1.5 National Contact

- : E-mail: chomerics_europe@parker.com
- Website: www.chomerics.com

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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Solid article. blue. No odour.

Most important hazards:

When heated above 150°C in air, may release formaldehyde gas. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

The product is an article and is not subject to the classification criteria of Regulation (EC) 1272/2008.

This product falls under the definition of an article under Regulation (EC) No. 1272/2008 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Products with a specific shape, surface or design which determines their function more than their chemical composition). REACH requires that Parker Chomerics inform requestors of the presence of Candidate List Substances of Very High Concern (SVHC) in a concentration of > 0.1% by total weight in Articles. This product does not intentionally contain any substances present on the Candidate List SVHC's.

2.2 Label elements

Hazard pictogram(s)

None required according to Regulation (EC) No. 1272/2008.

Signal word:

None required according to Regulation (EC) No. 1272/2008.

Hazard statements:

None required according to Regulation (EC) No. 1272/2008.

Precautionary statements:

None required according to Regulation (EC) No. 1272/2008.

Supplemental Hazard Statements:

None required according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. When heated above 150°C in air, may release formaldehyde gas. This product is considered to be an 'article' according to Regulation (EC) No. 1272/2008. This product is a cured silicone material. The ingredients listed in Section 3 are encapsulated within the silicone matrix, therefore no exposure to these materials is expected during normal use/handling of this product. Fumes from heated product may irritate respiratory tract. Inhalation of fumes may result in metal fume fever, a flu-like illness. May cause gastrointestinal irritation. If dusts are formed and exposure occurs: Dust contact with the eyes can lead to mechanical irritation.

Endocrine disrupting properties: None.

PBT assessment:

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature : Article. Cured silicone. May be supplied with a pressure sensitive adhesive (PSA) coating on one or both sides, and a release liner covering the adhesive layer.

The following substances shall be indicated according to legislation:

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Substance name	CAS No	EC No.	Reach Registration No.	% Weight	Classification according to Regulation (EC) nr. 1272/2008	SCL, M-factor, ATE
The following ingredients of the Cured silicone are encapsulated within the silicone matrix:						
Aluminium oxide	1344-28-1	215-691-6	Not applicable.	75.0 - 85.0	not hazardous. Substances for which there are Member Country workplace exposure limits.	Not applicable.
Silicic acid (H ₄ SiO ₄), tetraethyl ester, reaction products with chlorodimethylsilane	68988-57-8	273-531-0	Not applicable.	15.0 - 25.0	Flam. Liq. 3; H226 Eye Irrit. 2; H319 (self classified)	Not applicable.
Cobalt aluminate blue spinel	1345-16-0	310-193-6	Not applicable.	< 1.0	not hazardous (self classified). Substances for which there are Member Country workplace exposure limits.	Not applicable.
The following ingredient may be released from the product only when heated above 150°C:						
Formaldehyde	50-00-0	200-001-8	Present	Not known.	Carc. 1B; H350 Muta. 2; H341 *Acute Tox. 3; H301 *Acute Tox. 3; H311 *Acute Tox. 3; H331 Skin Corr. 1B; H314 Skin Sens. 1; H317	Not applicable.

*The above CLP Acute toxicity Classifications for the following chemicals are 'Minimum Classifications': formaldehyde.

For the full text of the H phrases not mentioned in this Section or in Section 2, see Section 16.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Ingestion : Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt, seek medical advice.

Inhalation : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. When symptoms persist or in all cases of doubt, seek medical advice.



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- Skin contact* : For skin contact, wash with soap and water while removing contaminated clothing. When symptoms persist or in all cases of doubt, seek medical advice.
- Eye contact* : Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. When symptoms persist or in all cases of doubt, seek medical advice.

4.1.2 Self-protection for the first aider

- : None known or reported by the manufacturer.

4.2 Most important symptoms and effects, both acute and delayed

- : This product is considered to be an 'article' according to Regulation (EC) No. 1272/2008. Under normal conditions of use, users of the product cannot be exposed to its harmful contents.
- If dusts are formed and exposure occurs: Dust contact with the eyes can lead to mechanical irritation. Symptoms may include stinging and tearing.
- Fumes from heated product may irritate respiratory tract. 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.
- 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.

4.3 Indication of any immediate medical attention and special treatment needed

- : Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

- : None known.

5.2 Special hazards arising from the substance or mixture

- : Not classified as flammable.
- Burning produces obnoxious and toxic fumes. When heated above 150°C in air, may release formaldehyde gas. The pressure in sealed containers can increase under the influence of heat. In the event of fire the following can be released: Carbon oxides; Metal oxides; formaldehyde; Silicon oxides; Other unidentified organic compounds.

5.3 Advice 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

6.1 Personal precautions, protective equipment and emergency procedures

- : Keep people away from and upwind of spill/leak. Wear appropriate protective equipment.

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6.2 Environmental precautions

- : Prevent product from entering drains, sewers, waterways and soil.

6.3 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. Pick up and transfer to properly labeled containers. Contact the proper local authorities.

6.4 Reference to other sections

- : Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

- : Use with adequate ventilation. Wear suitable protective equipment during handling. Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep away from incompatibles. Keep containers closed when not in use. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

- : Store in cool/well-ventilated place. Inspect periodically for damage or leaks. Do not store near any incompatible materials (see Section 10).

7.3 Specific end use(s)

- : Thermally conductive elastomer insulator pad.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

<u>Exposure Limits:</u>			
<u>Chemical Name</u>	<u>Exposure Limits</u>	<u>Type</u>	<u>Notes</u>
Aluminium oxide	10 mg/m ³ (TWA)	France (OEL)	None.
	6 mg/m ³ (respirable dust) (TWA)	Hungary (OEL)	None.
	None.	Italy (OEL)	N/Av
	2.5 mg/m ³ (inhalable); 1.2 mg/m ³ (respirable dust) (TWA)	Poland (OEL)	None.
	10 mg/m ³ (TWA)	Spain (OEL)	None.
	10 mg/m ³ (inhalable); 4 mg/m ³ (respirable dust) (TWA)	The United Kingdom (WELs)	None.
Cobalt aluminate blue spinel	0.02 mg/m ³ (TWA)	Finland (OEL)	(as 'Cobalt and cobalt compounds')
	0.1 mg/m ³ (TWA) 0.4 mg/m ³ (STEL)	Hungary (OEL)	(as 'Cobalt and cobalt compounds')
	0.02 mg/m ³ (dust and fume) (TWA) 0.2 mg/m ³ (dust and fume) (STEL)	Poland (OEL)	(as 'Cobalt and cobalt compounds')
	0.02 mg/m ³ (TWA)	Spain (OEL)	(as 'Cobalt and cobalt compounds')

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	0.1 mg/m ³ (TWA)	The United Kingdom (WELs)	(as 'Cobalt and cobalt compounds')
Formaldehyde	0.3 ppm (0.37 mg/m ³) (TWA) 1 ppm (1.2 mg/m ³) (STEL)	Finland (OEL)	None.
	0.5 ppm (TWA) 1 ppm (STEL)	France (OEL)	None.
	0.3 ppm (0.37 mg/m ³) (exposure factor 2) (TWA)	Germany (OEL)	Carc. 1B Skin sensitizer
	0.6 mg/m ³ (TWA) 0.6 mg/m ³ (STEL)	Hungary (OEL)	Potential for cutaneous absorption
	None.	Italy (OEL)	N/Av
	0.5 mg/m ³ (TWA) 1 mg/m ³ (STEL)	Poland (OEL)	Skin notation
	0.3 ppm (0.37 mg/m ³) (STEL)	Spain (OEL)	None.
	2 ppm (2.5 mg/m ³) (TWA) 2 ppm (2.5 mg/m ³) (STEL)	The United Kingdom (WELs)	None.
Silicic acid (H₄SiO₄), tetraethyl ester, reaction products with chlorodimethylsilane			
	None known.	European Union (OEL)	None.

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

Predicted No Effect Concentration (PNEC)
20 mg/L Sewage treatment (CAS 7429-90-5)

Derived No Effect Level (DNEL) None known.

8.2 Exposure controls

Ventilation and engineering measures

- : Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits. 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. Seek advice from respiratory protection specialists.

Skin protection

- : For prolonged or repeated contact use protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it. Wear sufficient clothing to prevent skin contact.

Eye / face protection

- : If product is processed in a manner that generates dusts or fumes, wear as appropriate: Tightly fitting safety goggles; Safety glasses with side shields See also EN 166.



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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.

8.3 Environmental exposure controls

- : Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- | | |
|--|--|
| Physical state | : Solid article. blue. May be supplied with a pressure sensitive adhesive (PSA) coating on one or both sides, and a release liner covering the adhesive layer. |
| Colour | : blue |
| Odour | : No odour. |
| Odour threshold | : No information available. |
| pH | : Not applicable. |
| Flash point | : Not applicable. |
| Flashpoint (Method) | : Not applicable. |
| Lower flammable limit (% by vol.) | : Not applicable. |
| Upper flammable limit (% by vol.) | : Not applicable. |
| Auto-ignition temperature | : No information available. |
| Decomposition temperature | : No information available. |
| Oxidizing properties | : None. |
| Explosive properties | : Not explosive |
| Initial boiling point and boiling range | : Not applicable. |
| Melting/Freezing point | : No information available. |
| Relative density | : 2.2 |
| Solubility in water | : Insoluble. |
| Other solubility(ies) | : No information available. |
| Vapour pressure | : Not applicable. |
| Vapour density | : Not applicable. |
| Partition coefficient: n-octanol/water | : No information available. |
| Viscosity | : Not applicable. |
| Evaporation rate (BuAe = 1) | : Not applicable. |
| Particle characteristics | : Not applicable. |

9.2 Other Information

- | | |
|--------------------------------|--------------|
| Volatiles (% by weight) | : negligible |
|--------------------------------|--------------|



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Volatile organic Compounds (VOC's)

: Not applicable.

Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : Not normally reactive.

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

10.3 Possibility of hazardous reactions

: Hazardous polymerization does not occur. No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid : Keep away from extreme heat and flame. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

10.5 Incompatible materials

: Strong oxidizing agents; Strong acids

10.6 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; Silicon oxides; Other unidentified organic compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

Acute toxicity : According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.
This product is considered to be an 'article' according to Regulation (EC) No. 1272/2008. Under normal conditions of use, users of the product cannot be exposed to its harmful contents.

Skin corrosion/Irritation : According to the classification criteria of the European Union, this product is not considered as being a skin corrosive or irritant.
This product is considered to be an 'article' according to Regulation (EC) No. 1272/2008. Under normal conditions of use, users of the product cannot be exposed to its harmful contents.

Serious eye damage/irritation

: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.
This product is considered to be an 'article' according to Regulation (EC) No. 1272/2008. Under normal conditions of use, users of the product cannot be exposed to its harmful contents.

Respiratory or skin sensitisation

: Not expected to be a skin or respiratory sensitizer.
This product is considered to be an 'article' according to Regulation (EC) No. 1272/2008. Under normal conditions of use, users of the product cannot be exposed to its harmful contents.
Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde may cause sensitisation by skin contact.

Germ cell mutagenicity : Contains no ingredient listed as a mutagen.
Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde may cause mutations to non-reproductive (somatic) cells, based on animal data.



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- Carcinogenicity** : Contains no ingredient listed as a carcinogen
Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde has shown limited evidence of a carcinogenic effect.
- Reproductive toxicity** : Contains no ingredient listed as toxic to reproduction.
- STOT-single exposure** : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through a single exposure.
This product is considered to be an 'article' according to Regulation (EC) No. 1272/2008. Under normal conditions of use, users of the product cannot be exposed to its harmful contents.
- STOT-repeated exposure** : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.
This product is considered to be an 'article' according to Regulation (EC) No. 1272/2008. Under normal conditions of use, users of the product cannot be exposed to its harmful contents.
- Aspiration hazard** : According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.
- Routes of exposure** : Eye contact; Skin contact; Inhalation; Ingestion
- Effects of acute exposure** : This product is considered to be an 'article' according to Regulation (EC) No. 1272/2008. Under normal conditions of use, users of the product cannot be exposed to its harmful contents. However, if the product is misused, the following health effects may occur:

Inhalation: Fumes from heated product may irritate respiratory tract. 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.

Skin contact: Direct skin contact may result in little or no irritation.

Eye contact: If dusts are formed and exposure occurs: Dust contact with the eyes can lead to mechanical irritation. Symptoms may include stinging and tearing.

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

Potential Chronic Health Effects

- : None known or reported by the manufacturer.

11.1.1 Acute Toxicity

- Toxicological data** : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC₅₀(4hr)</u>	<u>LD₅₀</u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
The following ingredients of the Cured silicone are encapsulated within the silicone matrix:			
Aluminium oxide	> 2.3 mg/L (dust) (no deaths)	> 2000 mg/kg (No mortality)	No information available.
Silicic acid (H ₄ SiO ₄), tetraethyl ester, reaction products with chlorodimethylsilane	No information available.	No information available.	No information available.
Cobalt aluminate blue spinel	> 5.06 mg/L (dust) (No mortality)	> 10 000 mg/kg	No information available.
The following ingredient may be released from the product only when heated above 150°C:			
Formaldehyde	287 ppm	800 mg/kg (rat) The estimated human lethal dose is: 317 - 475 mg/kg	300 mg/kg



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11.2 Information on other Hazards

: Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde is an eye and throat irritant and acute toxicant. Formaldehyde causes severe respiratory irritation, lung inflammation and pulmonary edema.

11.2.1 Endocrine disrupting properties : None Known.

11.2.2 Other hazards None Known.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

: As supplied, this product does not present a physical, health or environmental hazard. 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.

Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Aluminium oxide	1344-28-1	> 100 mg/L (Brown trout)	No information available.	None.
Silicic acid (H ₄ SiO ₄), tetraethyl ester, reaction products with chlorodimethylsilane	68988-57-8	No information available.	No information available.	None.
Formaldehyde	50-00-0	6.7 mg/L (Striped bass)	≥ 48 mg/L/28-day (Japanese ricefish)	None.
Cobalt aluminate blue spinel	1345-16-0	No information available.	No information available.	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Aluminium oxide	1344-28-1	> 100 mg/L (Daphnia magna)	No information available.	None.
Silicic acid (H ₄ SiO ₄), tetraethyl ester, reaction products with chlorodimethylsilane	68988-57-8	No information available.	No information available.	None.
Formaldehyde	50-00-0	5.8 mg/L (Daphnia magna)	No information available.	None.
Cobalt aluminate blue spinel	1345-16-0	No information available.	No information available.	None.



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<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Aluminium oxide	1344-28-1	> 100 mg/L/72hr (Green algae) (Read-across)	No information available.	None.
Silicic acid (H ₄ SiO ₄), tetraethyl ester, reaction products with chlorodimethylsilane	68988-57-8	No information available.	No information available.	None.
Formaldehyde	50-00-0	14.7 mg/L/24hr (Green algae)	No information available.	None.
Cobalt aluminate blue spinel	1345-16-0	No information available.	No information available.	None.

12.2 Persistence and degradability

: Not expected to be rapidly biodegradable.

12.3 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 K_{ow})</u>	<u>Bioconcentration factor (BCF)</u>
Formaldehyde (CAS 50-00-0)	0.35	3

12.4 Mobility in soil : The product itself has not been tested.

12.5 Results of PBT and vPvB assessment

: This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Endocrine disrupting properties

: None known or reported by the manufacturer.

12.7 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.

12.8 Additional information : None known or reported by the manufacturer.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

- Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.
- Methods of Disposal** : Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14. TRANSPORTATION INFORMATION



Parker Hannifin Ltd., Engineered Materials Group
Chomerics Division Europe
Unit 6 Century Point Halifax Road
High Wycombe Bucks, HP12 3SL
United Kingdom,
Telephone: 044 (0) 1494 455 400

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Regulatory Information	14.1 UN Number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing Group	Label
ADR/RID	None.	not regulated	not regulated	none	
EU ADR/RID Classification Code	Not applicable.				
EU ADR / RID Hazard Identification Number	Not applicable.				
ADR/RID Additional information	Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				

14.5 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.

14.6 Special precautions for user

: Appropriate advice on safety must accompany the package.

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

: Not applicable.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture



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This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous mixtures.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:

None of the components are specifically listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended:

None of the components are specifically listed.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:

None of the components are specifically listed.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work:

Silicic acid (H₄SiO₄), tetraethyl ester, reaction products with chlorodimethylsilane (CAS # 68988-57-8)

Directive 94/33/EC on the protection of young people at work:

None of the components are specifically listed.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2020/878].

Follow national regulation for work with chemical agents.

German legislation on water endangering substances AWSV: Water contaminating class (Germany) - No information available.

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.



Parker Hannifin Ltd., Engineered Materials Group
Chomerics Division Europe
Unit 6 Century Point Halifax Road
High Wycombe Bucks, HP12 3SL
United Kingdom,
Telephone: 044 (0) 1494 455 400

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SECTION 16. OTHER INFORMATION

Legend	: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road CAS: Chemical Abstract Services CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures EC: European Community EC50: Effective Concentration 50% ECHA: European Chemicals Agency EEC: European Economic Community EN: European Standard EU: European Union HSDB: Hazardous Substances Data Bank IATA: International Air Transport Association IBC: Intermediate Bulk Container IMDG: International Maritime Dangerous Goods LC: Lethal Concentration LD: Lethal Dose NOEC: No observable effect concentration OECD: Organisation for Economic Co-operation and Development OEL: National occupational exposure limits PEL: Permissible exposure limit RID: Regulations concerning the International Carriage of Dangerous Goods by Rail RTECS: Registry of Toxic Effects of Chemical Substances SDS: Safety Data Sheet STEL: Short Term Exposure Limit TWA: Time Weighted Average WEL: Workplace Exposure Limit
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Information Source : 1. Material Safety Data Sheet from manufacturer.
2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases
3. European Chemicals Agency, Classification Legislation
4. OECD - The Global Portal to Information on Chemical Substances

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: 21/09/2023

Revision No. : 3

Revision Information : (M)SDS sections updated: 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING 2. HAZARDS IDENTIFICATION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Regulation and Procedure :



Parker Hannifin Ltd., Engineered Materials Group
Chomerics Division Europe
Unit 6 Century Point Halifax Road
High Wycombe Bucks, HP12 3SL
United Kingdom,
Telephone: 044 (0) 1494 455 400

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not regulated

H-phrases (full-text)

H226 - Flammable liquid and vapour.

H301 - Toxic if swallowed.

H311 - Toxic in contact with skin.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H331 - Toxic if inhaled.

H341 - Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H350 - May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for:

Parker Hannifin Corp.
77 Dragon Court
Woburn, MA, USA 01888
Telephone: 001-781-935-4850
<http://www.parker.com>
Direct all enquiries to Parker Hannifin.



Prepared by:

ICC The Compliance Center Inc.
<http://www.thecompliancecenter.com>



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