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**CHO-SEAL® 1298 Conductive Fluorosilicone
Elastomer (uncured)**

1298

SDS Preparation Date (dd/mm/yyyy): 19/02/2014

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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 / UNDERTAK

1.1 Product identifier : CHO-SEAL® 1298 Conductive Fluorosilicone Elastomer (uncured)

Product Code(s) : 1298

SDS No. : PHC-248 EU

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

: Conductive elastomer / EMI Shielding.
Use pattern: professional use - Electronics industry.
No restrictions on use known.

1.3 Details of the supplier of the safety data sheet:

Parker Hannifin Ltd., Seal Group

Chomerics Division Europe
Unit 6 Century Point
Halifax Road
High Wycombe
Bucks, HP12 3SL
United Kingdom

Telephone : +44 (0) 1494 455 400

1.4 Emergency Telephone Number

: 001-352-323-3500 (INFOTRAC)

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Solid (Putty) - grey. No odour.

Most important hazards: This preparation is not classified as dangerous according to Directive 1999/45/EC.

2.2 Label elements

This preparation is not classified as dangerous according to Directive 1999/45/EC. The preparation does not need to be labelled in accordance with Directive 1999/45/EC, or Annex VI to 67/548/EEC.

Safety data sheet available for professional user on request.

2.3 Other hazards

Other hazards which do not result in classification:

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 has shown limited evidence of a carcinogenic effect. Heating or fire can release toxic gas. May be mildly irritating to skin, eyes and respiratory system. Inhalation of fumes may result in metal fume fever, a flu-like illness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Silver in the form of a finely divided dust may cause discoloration in contact with skin, and argyrosis in case of inhalation.

Environmental precautions:

The product should not be allowed to enter drains, water courses or the soil. See ECOLOGICAL INFORMATION, Section 12.

PBT assessment: This preparation contains substances considered to be very persistent and very bioaccumulating (vPvB).
Contains: Octamethylcyclotetrasiloxane.



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature of the preparation: Mixture - Silver plated aluminium powder; Siloxanes; Fluorinated siloxanes; Inorganic substances in powdered form; Silicone polymer; silane compounds.

The following substances shall be indicated according to legislation:

Chemical name	CAS #	EC No.	Concentration	EU Classification
Aluminium	7429-90-5	231-072-3	50.0 - 60.0	F - Highly flammable; R11 - R15
Silver metal	7440-22-4	231-131-3	7.0 - 13.0	None assigned. Substances for which there are Community workplace exposure limits.
Silica, amorphous fumed	112945-52-5	231-545-4 (as Silicon dioxide)	1.0 - 5.0	None assigned. Substances for which there are Community workplace exposure limits.
Octamethylcyclotetrasiloxane	556-67-2	209-136-7	0.1 - 0.5	R53 Xn - Harmful; Repr.Cat.3; R62
Trifluoropropyl methyl cyclotetrasiloxane	429-67-4	207-060-9	1.0 - 2.0	Xn - Harmful; R21/22 R53 (Supplier)
Octamethyltrisiloxane	107-51-7	203-497-4	0.5 - 1.5	R10 R53 (self classified)
The following ingredient is released from the product only when heated above 150°C:				
Formaldehyde	50-00-0	200-001-8	Not known.	T - Toxic; R23/24/25 C - Corrosive; R34 Xn - Harmful; Carc.Cat.3; R40 Xi - Irritant; R43

Note: Formaldehyde is not intentionally added to this product.

For the full text of the R phrases mentioned in this section, see Section 2 or 16.

SECTION 4. FIRST-AID MEASURES

4.1 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 breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. When symptoms persist or in all cases of doubt seek medical advice.
- Skin contact* : Remove/Take off immediately all contaminated clothing. Wash off immediately with soap and plenty of water. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing before re-use.
- Eye contact* : Immediately flush eye(s) with plenty of water. When symptoms persist or in all cases of doubt seek medical advice.

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4.2 Most important symptoms and effects, both acute and delayed

- : May be mildly irritating to skin, eyes and respiratory system.
Inhalation of fumes may result in metal fume fever, a flu-like illness.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
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 has shown limited evidence of a carcinogenic effect.

4.3 Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

- : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

- : Water may cause spattering of hot material and may spread burning.

5.2 Special hazards arising from the substance or mixture

- : Not considered flammable. During cure, vapours are released which may be harmful. The pressure in sealed containers can increase under the influence of heat. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; formaldehyde; Metal oxides; silicon oxides; Hydrogen fluoride; Fluorocarbons.

5.3 Advice for firefighters

Protective equipment for fire-fighters

- : Wear self-contained breathing apparatus and protective suit. Fight fire with normal precautions from a reasonable distance.

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

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

6.2 Environmental precautions

- : Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

6.3 Methods and material for containment and cleaning up

- : Ventilate the area. Prevent further leakage or spillage if safe to do so. Eliminate all ignition sources if safe to do so. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers. Contaminated absorbent material may pose the same hazards as the spilled product. 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.



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SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

- : Provide adequate ventilation. Wear suitable protective equipment. Avoid breathing fumes. Avoid contact with skin, eyes and clothing. Keep away from heat. Keep away from acids and other incompatibles. Keep container tightly closed. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

- : Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Inspect periodically for damage or leaks. Protect against physical damage. Keep containers dry and tightly closed to avoid moisture absorption and contamination.

7.3 Specific end use(s)

- : Conductive elastomer / EMI Shielding

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	10 mg/m ³ (metal); 5 mg/m ³ (dust) (TWA)	France (OEL)	None.
	6 mg/m ³ (respirable dust) (TWA)	Hungary (OEL)	None.
	2.5 mg/m ³ (inhalable dust and fume); 1.2 mg/m ³ (respirable dust and fume) (TWA)	Poland (OEL)	None.
	10 mg/m ³ (dust) (TWA)	Spain (OEL)	None.
	10 mg/m ³ (inhalable); 4 mg/m ³ (respirable dust) (TWA)	The United Kingdom (WELs)	None.
Formaldehyde	0.5 ppm (TWA) 1 ppm (STEL)	France (OEL)	None.
	0.6 mg/m ³ (TWA) 0.6 mg/m ³ (STEL)	Hungary (OEL)	Potential for cutaneous absorption
	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.
Octamethylcyclotetrasiloxane	None known.	European Union (OEL)	None.
Octamethyltrisiloxane	None known.	European Union (OEL)	None.
Silica, amorphous fumed	4 mg/m ³ (inhalable) (TWA)	Austria (OEL)	None.



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	4 mg/m ³ (inhalable) (TWA)	Germany (OEL)	(as 'Silicon dioxide')
	6 mg/m ³ (inhalable); 2.4 mg/m ³ (respirable dust) (TWA)	The United Kingdom (WELs)	(as 'Silicon dioxide')
	18 mg/m ³ (inhalable); 7.2 mg/m ³ (respirable dust) (STEL)		
Silver metal	0.1 mg/m ³ (TWA)	European Union (OEL)	None.
	0.1 mg/m ³ (TWA)	France (OEL)	None.
	0.1 mg/m ³ (inhalable) (TWA)	Germany (OEL)	(exposure factor 8)
	0.1 mg/m ³ (TWA) 0.4 mg/m ³ (STEL)	Hungary (OEL)	None.
	0.1 mg/m ³ (TWA)	Italy (OEL)	None.
	0.05 mg/m ³ (TWA)	Poland (OEL)	None.
	0.1 mg/m ³ (TWA)	Spain (OEL)	None.
	0.1 mg/m ³ (TWA)	The United Kingdom (WELs)	None.
Trifluoropropyl methyl cyclotetrasiloxane	None known.	European Union (OEL)	None.

Note: Formaldehyde is not intentionally added to this product. The above exposure limits are provided for safety reasons.

8.2 Exposure controls

Ventilation and engineering measures

- : Use only in well-ventilated areas. 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

- : In the case of vapour formation use a respirator with an approved filter. 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.

Skin protection

- : Gloves impervious to the material are recommended. 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. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact.

Eye / face protection

- : Safety goggles or glasses as appropriate for the job. See also EN 166.

Other protective equipment

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

General hygiene considerations

- : Avoid breathing fumes. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	: Solid (Putty) - grey
Odour	: No odour.
Odour threshold	: No information available.
pH	: No information available.
Flash point	: No information available.
Flashpoint (Method)	: No information available.
Lower flammable limit (% by vol.)	: No information available.
Upper flammable limit (% by vol.)	: No information available.
Flammability (solid, gas)	: Not applicable.
Auto-ignition temperature	: No information available.
Decomposition temperature	: No information available.
Oxidizing properties	: None known.
Explosive properties	: Not expected to be sensitive to mechanical impact or static discharge.
Initial boiling point and boiling range	: No information available.
Melting/Freezing point	: No information available.
Relative density	: > 1.0
Solubility in water	: insoluble
Other solubility(ies)	: No information available.
Vapour pressure	: No information available.
Vapour density	: No information available.
Partition coefficient: n-octanol/water	: No information available.
Viscosity	: No information available.
Evaporation rate (BuAe = 1)	: No information available.

9.2 Other Information

Volatiles (% by weight)	: No information available.
Volatile organic Compounds (VOC's)	: No information available.
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.

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- 10.4 Conditions to avoid** : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.
- 10.5 Incompatible materials** : Oxidizing agents; Acids; Bases; .
- 10.6 Hazardous decomposition products** : Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; formaldehyde; metal oxides; silicon oxides; Hydrogen fluoride; Fluorocarbons.

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.
- Irritation** : According to the classification criteria of the European Union, this product is not considered as being an irritant.
- Corrosivity** : According to the classification criteria of the European Union, this product is not considered as being a corrosive material.
- Sensitisation** : According to the classification criteria of the European Union, this product is not considered as being an allergic respiratory sensitiser.
According to the classification criteria of the European Union, this product is not considered as being an allergic skin sensitiser. Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde may cause sensitisation by skin contact.
- 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.
- Carcinogenicity** : Not classifiable as a human carcinogen.
Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde has shown limited evidence of a carcinogenic effect.
- Reproductive toxicity** : Not classifiable as a reproductive toxin.
- Repeated dose toxicity** : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated doses.
- 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>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Aluminium	No information available.	No information available.	No information available.
Silver metal	No information available.	> 2000 mg/kg	No information available.
Silica, amorphous fumed	No information available.	3160 mg/kg	No information available.
Octamethylcyclotetrasiloxane	36 000 mg/m ³	1540 mg/kg	> 2400 mg/kg
Trifluoropropyl methyl cyclotetrasiloxane	No information available.	1540 mg/kg	No information available.
Octamethyltrisiloxane	> 22.6 mg/L	> 2000 mg/kg	> 2000 mg/kg
The following ingredient is released from the product only when heated above 150°C:			
Formaldehyde	287 ppm	800 mg/kg	300 mg/kg

Routes of exposure : Eye contact; Skin contact; Inhalation; Ingestion.

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Effects of acute exposure : *Inhalation*: Mild respiratory irritant. 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.

Skin contact: May cause mild skin irritation.

Eye contact: May cause mild eye irritation.

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

Potential Chronic Health Effects

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

Other important hazards : Avoid heating, which will result in the liberation of formaldehyde gas.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity : 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. Other ingredients which may be harmful: Octamethylcyclotetrasiloxane.

The acute toxicity of octamethylcyclotetrasiloxane is (IUCLID):

Toxicity to fish - LC50/96h/Brachydanio rerio = > 500 mg/L

Toxicity to daphnia - EC50/24h/ Daphnia magna (Water flea)= 25.2 mg/L

12.2 Persistence and degradability

: The product itself has not been tested. Contains: Octamethylcyclotetrasiloxane; Octamethyltrisiloxane.
Octamethylcyclotetrasiloxane has a half-life in water of 37.5 days (Canadian Environmental Protection Agency). Octamethylcyclotetrasiloxane has a half life in sediment of > 728 days (Canadian Environmental Protection Agency).
Octamethyltrisiloxane is not considered to be readily biodegradable (OECD).

12.3 Bioaccumulation potential

: The product itself has not been tested. Contains: Octamethylcyclotetrasiloxane; Octamethyltrisiloxane.
Octamethylcyclotetrasiloxane has a bioconcentration factor (BCF) in fish (fathead minnows) of 12,400 (IUCLID).
Octamethyltrisiloxane has a bioconcentration factor in fish of > 3000 (OECD).

12.4 Mobility in soil

: The product itself has not been tested.

12.5 Results of PBT and vPvB assessment

: This preparation contains substances considered to be very persistent and very bioaccumulating (vPvB). Contains: Octamethylcyclotetrasiloxane.
The final vPvB assessment of Octamethylcyclotetrasiloxane within the European Union is currently being evaluated.

12.6 Other Adverse Environmental effects

: None known.

Water contaminating class (Germany)

: No information available.



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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

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.



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SECTION 15. REGULATORY INFORMATION

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

- : 1. Substances presenting a health or environmental hazard within the meaning of Directive 67/548/EEC.
- 2. Classification according to European directive on classification of hazardous preparations 1999/45/EC.
- 3. This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [*including Regulation (EU) No. 453/2010*].
- 4. In accordance with the legislation of the United Kingdom.
- 5. German legislation on water endangering substances VwVwS (see Section 12) .

15.2 Chemical safety assessment

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

SECTION 16. OTHER INFORMATION

Legend

- : ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS: Chemical Abstract Services
- EC: European Community
- EEC: European Economic Community
- EINECS: European Inventory of Existing Commercial chemical Substances
- EN: European Standard
- EU: European Union
- HSDB: Hazardous Substances Data Bank
- IATA: International Air Transport Association
- IBC: Intermediate Bulk Container
- ICAO: International Civil Aviation Organisation
- IMDG: International Maritime Dangerous Goods
- IUCLID: International Uniform Chemical Information Database
- LC: Lethal Concentration
- LD: Lethal Dose
- OEL: National occupational exposure limits
- 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

Information Source

- : 1. Material Safety Data Sheet from manufacturer.
- 2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2014 (Chempendium, RTECS, HSDB, INCHEM).
- 3. European Chemicals Bureau, Existing Chemicals Work Area, EINECS Information System, 2014.
- 4. European Chemicals Agency, Classification Legislation, 2014.
- 5. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2014.

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R-Phrases (Full text) :

- R10 - Flammable.
- R11 - Highly flammable.
- R15 - Contact with water liberates extremely flammable gases.
- R21/22 - Harmful in contact with skin and if swallowed.
- R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.
- R34 - Causes burns.
- R40 - Limited evidence of a carcinogenic effect.
- R43 - May cause sensitization by skin contact.
- R53 - May cause long-term adverse effects in the aquatic environment.
- R62 - Possible risk of impaired fertility.

Refer to section 2 for additional R phrases not listed here.

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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