



Coil Klean

CK20

SDS Preparation Date (dd/mm/yyyy): 17/10/2024

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SAFETY DATA SHEET

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

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

1.1 Product identifier : **Coil Klean**

Product Code(s) : CK20 (P/N 475252)

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

- : Refrigeration coil cleaner
- Restriction on use: None known
- Refer to restrictions found in REACH Annex XVII item 75.

1.3 Details of the supplier of the safety data sheet:

Parker Hannifin Corporation - Sporlan Division

206 Lange Drive
Washington, MO, U.S.A.
63090

Telephone : (636) 239 1111

1.4 Emergency Telephone Number

- : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).
- Poisons Information Centre
- The United Kingdom NHS 111
- France +33383852192
- Germany +493018412-0
- Spain +34917689800
- Poland +48422538400
- Italy
- 06 68593726 (CAV "Osp. Pediatrico Bambino Gesu" 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)(636)-239-1111

1.5 National Contact

- : +001 (636) 239 1111

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Pressurized liquid contained in aerosol-type cylinder. Solvent odour.

This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008. Classification :

Aerosols Category 2 ;H222, H229

Skin Irritation - Category 2 ;H315

Serious eye damage/eye irritation - Category 2A ;H319

2.2 Label elements

Hazard pictogram(s)



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Hazardous components which must be listed on the label : 1-Propoxy-2-propanol, Trisodium phosphate, Sodium metasilicate

Signal word Warning

Hazard statements

H222 Extremely flammable aerosol
H229 - Pressurized container: may burst if heated.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.

Precautionary statements

P201 - Obtain special instructions before use.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking
P261 - Avoid breathing fumes, mists or vapours.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308 + P313 - IF exposed or concerned: Get medical advice/attention.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

2.3 Other hazards

Contact with liquid or refrigerated gas can cause cold burns and frostbite. May cause respiratory tract irritation. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea.

Endocrine disrupting properties: Not applicable.

PBT assessment

This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature :Mixture

Substance name	CAS No	EC No.	Reach Registration No.	% Weight	Classification according to Regulation (EC) nr. 1272/2008	SCL, M-factor, ATE
1-Propoxy-2-propanol	1569-01-3	216-372-4	Not available	5.0 - 10.0	Flam. Liq. 3 ;H226 Eye Irrit. 2 ;H319	Not applicable.



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Trisodium phosphate	7601-54-9	231-509-8	Not available	1.0 - 5.0	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	Not applicable.
Butane	106-97-8	203-448-7	Not available	1.0 - 5.0	Flam. Gas 1 ; H220 Press. Gas	Not applicable.
Propane	74-98-6	200-827-9	Not available	1.0 - 5.0	Flam. Gas 1 H220 Press. Gas	Not applicable.
Sodium metasilicate	6834-92-0	229-912-9	Not available	1.0 - 5.0	Skin Corr. 1B ; H314 STOT SE 3 ; H335	Not applicable.

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* : Call a physician or poison control centre immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention/advice.
- Inhalation* : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. Keep warm and in a quiet place. If breathing is difficult, give oxygen by qualified medical personnel only. Seek immediate medical attention/advice.
- Skin contact* : Remove contaminated clothing. Wash contaminated area with soap and lukewarm (not hot), gently running water. Seek immediate medical attention/advice. Wash contaminated clothing before re-use.
- Eye contact* : Immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention/advice.

4.1.2 Self-protection for the first aider

- : Wear protective gloves and eye/face protection.

4.2 Most important symptoms and effects, both acute and delayed

- : Causes skin irritation. Symptoms may include redness, itching and swelling. Causes eye irritation. Symptoms may include stinging and tearing. Contact with liquid or refrigerated gas can cause cold burns and frostbite. May cause respiratory irritation. Symptoms may include coughing, choking and wheezing. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

- : Dry chemical, foam, carbon dioxide and water fog.

Unsuitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

- : Contents under pressure. Containers may explode if heated. Do not pierce or burn, even after use. Aerosols are sensitive to mechanical impact.

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.



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Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Avoid spreading burning liquid with water spray used for cooling purposes. Shield personnel to protect from venting or rupturing containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- : Restrict access to area until completion of clean-up. Keep all other personnel upwind and away from the spill/release. Individuals involved in the cleanup must wear appropriate personal protective equipment. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

- : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

6.3 Methods and material for containment and cleaning up

- : Remove all sources of ignition. Ventilate area of release. Stop leak if you can do so without risk. Dike for water control. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). 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

- : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/clothing and eye/face protection. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with eyes, skin and clothing. Keep away from extreme heat and flame. Avoid contact with strong oxidizing agents. Always replace cap after use. Wash thoroughly after handling. Do not puncture or incinerate containers. Keep out of reach of children. Keep away from direct sunlight.

7.2 Conditions for safe storage, including any incompatibilities

- : Store in a cool, dry, well ventilated area, away from heat and ignition sources. Store locked up. Keep away from direct sunlight. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. No smoking in the area. Inspect periodically for damage or leaks.

7.3 Specific end use(s)

- : Metal coating

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>
1-Propoxy-2-propanol	N/Av	European Union (OEL)	N/Av
	N/Av	The United Kingdom (WELs)	N/Av
Trisodium phosphate			



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	N/Av	European Union (OEL)	N/Av
	N/Av	The United Kingdom (WELs)	N/Av
Butane	None.	European Union (OEL)	None.
	800 ppm (1900 mg/m ³) (TWA)	France (OEL)	None.
	1000 ppm (TWA)	Spain (OEL)	None.
	600 ppm (1450 mg/m ³) (TWA) 750 ppm (1810 mg/m ³) (STEL)	The United Kingdom (WELs)	None.
Propane	None.	European Union (OEL)	None.
	None.	France (OEL)	None.
	1000 ppm (1800 mg/m ³) (exposure factor 4) (TWA)	Germany (OEL)	None.
	1000 ppm (TWA)	Spain (OEL)	None.
	None.	The United Kingdom (WELs)	None.
Sodium metasilicate	None.	European Union (OEL)	None.
	None.	The United Kingdom (WELs)	None.

Biological Exposure Indices:

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

Derived No Effect Level (DNEL) Not available.

Predicted No Effect Concentration (PNEC) Not available.

8.2 Exposure controls

Ventilation and engineering measures

: Do not use in closed or confined space. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection

: Use NIOSH/MSHA approved full-face respirator with an organic vapour cartridge if the recommended exposure limit is exceeded. Advice should be sought from respiratory protection specialists.

Skin protection

: Solvent-resistant gloves. Advice should be sought from glove suppliers.

Eye / face protection

: Chemical splash goggles are recommended. See also EN 166.

Other protective equipment

: An eyewash station and safety shower should be made available in the immediate working area. Depending on conditions of use, an impervious apron should be worn. Remove and wash contaminated clothing before re-use.

General hygiene considerations

: Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

8.3 Environmental exposure controls

: Avoid release to the environment.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	: Aerosol spray.
Colour	: Not available.
Odour	: Solvent odour.
Odour threshold	: Not available.
pH	: Not applicable.
Flash point	: Not available.
Flashpoint (Method)	: Not applicable.
Lower flammable limit (% by vol.)	: Not available.
Upper flammable limit (% by vol.)	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Oxidizing properties	: None known.
Explosive properties	: May be sensitive to static discharge.
Initial boiling point and boiling range	: Not available
Melting/Freezing point	: Not available.
Relative density	: 1.05
Solubility in water	: Slightly soluble.
Other solubility(ies)	: Not available.
Vapour pressure	: Not available.
Vapour density	: Not available.
Partition coefficient: n-octanol/water	: Not available.
Viscosity	: Not available.
Evaporation rate (BuAe = 1)	: Not available.
Particle characteristics	: Not applicable.

9.2 Other Information

Volatiles (% by weight)	: Not available.
Volatile organic Compounds (VOC's)	: Not available.
Other physical/chemical comments	: Chemical heat of combustion :4.23 kJ/g

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity	: Not normally reactive.
10.2 Chemical stability	: Material is stable under normal conditions.
10.3 Possibility of hazardous reactions	: Hazardous polymerization does not occur.



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10.4 Conditions to avoid : Keep out of direct sunlight. Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Do not use in areas without adequate ventilation.

10.5 Incompatible materials

: Alkali metals; oxidizing agents; Bases; Reducing agents.

10.6 Hazardous decomposition products

: Carbon oxides; Hydrocarbons.

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.

Skin corrosion/Irritation : Causes skin irritation.

Serious eye damage/irritation

: Causes serious eye irritation.

Respiratory or skin sensitisation

: Not expected to be a skin or respiratory sensitizer.

Germ cell mutagenicity : According to the classification criteria of the European Union, the product is not considered as being a carcinogen.

Carcinogenicity : According to the classification criteria of the European Union, the product is not considered as being a carcinogen.

Reproductive toxicity : According to the classification criteria of the European Union, this product is not considered as being 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 repeated doses. According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through a single exposure.

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.

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 : Inhalation Skin contact Eye contact Ingestion

Effects of acute exposure : Mild respiratory irritant

Causes skin irritation. Symptoms may include redness, itching and swelling. Contact with liquid can cause frostbite. Symptoms of frostbite may include numbness, prickling and itching.

Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis. Contact with liquid can cause frostbite. Symptoms of frostbite may include numbness, prickling and itching. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Potential Chronic Health Effects

: Prolonged skin contact may cause dermatitis (rash), characterized by red, dry, itching skin. May cause liver and kidney damage.

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.



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<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
1-Propoxy-2-propanol	N/Av	2504 mg/kg	N/Av
Trisodium phosphate	N/Av	> 2000 mg/kg (No mortality)	> 2000 mg/kg (No mortality)
Butane	276 000 ppm	N/Av (gas)	N/Av (gas)
Propane	658 mg/L/4H	N/Av	N/Av
Sodium metasilicate	> 2.06 mg/L (mist) (No mortality)	1152 - 1349 mg/kg	> 5000 mg/kg

11.2 Information on other Hazards

: CNS depression may result from extreme exposures.

11.2.1 Endocrine disrupting properties :Not applicable

11.2.2 Other hazards :Not applicable

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity : Do not allow material to contaminate ground water system. See the following tables for the substance's ecotoxicity data.

Ecotoxicity data:

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
1-Propoxy-2-propanol	1569-01-3	>100 mg/L (Rainbow trout)	N/Av	
Trisodium phosphate	7601-54-9	> 100 mg/L (Rainbow trout) (Read-across)	N/Av	None.
Butane	106-97-8	N/Av	N/Av	N/Av
Propane	74-98-6	N/Av	N/Av	N/Av
Sodium metasilicate	6834-92-0	260 - 310 mg/L (Rainbow trout)	N/Av	None.

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Daphnia</u>		
		<u>EC50 / 48h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
1-Propoxy-2-propanol	1569-01-3	>100mg/L(Daphnia magna)	N/Av	
Trisodium phosphate	7601-54-9	> 100 mg/L (Daphnia magna) (Read-across)	N/Av	None.
Butane	106-97-8	N/Av	N/Av	N/Av
Propane	74-98-6	N/Av	N/Av	N/Av
Sodium metasilicate	6834-92-0	1700 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
1-Propoxy-2-propanol	1569-01-3	>100 mg/L (Green algae)	N/Av	
Trisodium phosphate	7601-54-9	> 100 mg/L/72hr (Green algae) (Read-across)	≥ 100 mg/L/72hr (Read-across)	None.
Butane	106-97-8	N/Av	N/Av	N/Av
Propane	74-98-6	N/Av	N/Av	N/Av
Sodium metasilicate	6834-92-0	> 345 mg/L/72hr (Green algae)	160 mg/L/72hr	None.

12.2 Persistence and degradability

: No data is available on the product itself.

12.3 Bioaccumulation potential

: No data is available on the product itself.

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
1-Propoxy-2-propanol (CAS 1569-01-3)	0.49	1.7
Butane (CAS 106-97-8)	2.89 (estimated)	33 (estimated)
Propane (CAS 74-98-6)	2.3	N/Av

12.4 Mobility in soil

: No data is available on the product itself.

12.5 Results of PBT and vPvB assessment

: This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

: No data is available on the product itself.

12.7 Other Adverse Environmental effects

: No data is available on the product itself.

12.8 Additional information

: Avoid release to the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Handling for Disposal : Handle waste according to recommendations in Section 7. Do not puncture or incinerate containers.

Methods of Disposal : Improper disposal can cause damage to the environment. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Dispose of in accordance with the European Directives on waste and hazardous waste.

SECTION 14. TRANSPORTATION INFORMATION



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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
ICAO/IATA	UN1950	Aerosol	2.1	none	
ICAO/IATA Additional information	Refer to the appropriate Packing Instruction, prior to shipping this material. Review all State and Operator Variations, prior to shipping this material.				
ADR/RID	UN1950	AEROSOLS	2.1	none	
EU ADR/RID Classification Code	5A - Aerosol dispensers and receptacles, small, containing gas (gas cartridges); Asphyxiant				
EU ADR / RID Hazard Identification Number	none				
ADR/RID Additional information	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass.				
IMDG	UN1950	AEROSOLS	2.1	none	
IMDG Additional information	Consult the IMDG regulations for exceptions. EmS No. F-D,S-U				

14.5 Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

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 [including Regulation (EU) 2023/707]. Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous substances and mixtures.

Authorisations Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: Not applicable.

Restrictions on use

RoHS European Union's Directive 2002/95/EC, the Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) : Not applicable.

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended Refer to restrictions found in REACH Annex XVII item 75.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances: P3a FLAMMABLE AEROSOLS

Directive 94/33/EC on the protection of young people at work:
(CAS# 6834-92-0)

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work: (CAS# 6834-92-0)

German legislation on water endangering substances AWSV -1-

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 IATA: International Air Transport Association
IARC: International Agency for Research on Cancer
IMDG: International Maritime Dangerous Goods

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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Regulation and Procedure

:



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Based on expert judgement:
 Extremely flammable aerosol
 Skin irritation
 Eye irritation
 Reproductive toxicity
 Specific target organ toxicity, single exposure
 Specific Target Organ Toxicity, Repeated Exposure. Aquatic toxicity

H-phrases (full-text)

H229 - Pressurized container: may burst if heated.
 H280 - Contains gas under pressure; may explode if heated.
 H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.
 H335 - May cause respiratory irritation.
 H336 - May cause drowsiness or dizziness.
 H373 - May cause damage to organs (a,b,c) through prolonged or repeated exposure.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

<p>Prepared for: Parker Hannifin Corporation - Sporlan Division 206 Lange Drive Washington, MO 63090 U.S.A Telephone:+001 (636) 239-1111 Direct all enquiries to: Parker Hannifin Corp. - Sporlan Division.</p>	
<p>Prepared by: ICC The Compliance Center Inc. http://www.thecompliancecenter.com</p>	

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