



Scale Remover

WL1,WL5,WL55

SDS Preparation Date (dd/mm/yyyy): 16/10/2024

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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** : **Scale Remover**

**Product Code(s)** : WL1 (P/N 475084); WL5 (P/N 475087); WL55 (P/N 475089)

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

: Refrigeration coil scale remover cleaner.  
Use pattern: professional use  
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 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**

: +001 (636)-239-1111

### SECTION 2. HAZARDS IDENTIFICATION

**2.1 Classification of the substance or mixture**

Clear to yellow liquid. Pungent odour.

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

Classification::

Corrosive to metals - Category 1; H290  
Acute toxicity, oral - Category 4 ;H302  
Skin corrosion/irritation - Category 1; H314  
Specific target organ toxicity, single exposure - Category 3;H335

**2.2 Label elements**

*Hazard pictogram(s)*



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Hazardous components which must be listed on the label: Hydrogen chloride

Signal word  
Danger

Hazard statements

H290: May be corrosive to metals.  
H302 - Harmful if swallowed.  
H314 - Causes severe skin burns and eye damage.  
H335 - May cause respiratory irritation.  
Precautionary statements

P260 - Do not breathe fumes or vapours.  
P264 - Wash hands and face thoroughly after handling.  
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER or doctor/physician.  
P501 - Dispose of contents/container in accordance with local regulation.

EUH066 - Repeated exposure may cause skin dryness or cracking.

### 2.3 Other hazards

Ingestion may cause severe irritation to the mouth, throat and stomach. Contact with metals may release small amounts of flammable hydrogen gas. Prolonged skin contact may cause dermatitis (rash), characterized by red, dry, itching skin.

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
Hydrogen chloride	7647-01-0	231-595-7	Not available	10.0 - 30.0	Skin Corr. 1B; H314 STOT SE 3; H335	Not applicable.



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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. Have victim rinse mouth with water, then give one to two glasses of water to drink. Seek immediate medical attention/advice. Never give anything by mouth if victim is unconscious.
- Inhalation* : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Seek immediate medical attention/advice.
- Skin contact* : Take off all contaminated clothing immediately. Immediately flush skin with gently flowing, running water for at least 20 minutes. Do not rub area of contact. Seek immediate medical attention/advice. Wash contaminated clothing before reuse.
- Eye contact* : Immediately flush eyes with running water for at least 20 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

- : May cause serious eye irritation or damage. Symptoms may include redness, pain, tearing and conjunctivitis. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding and eventually death. May cause severe irritation to the nose, throat and respiratory tract. Symptoms may include coughing, choking and wheezing. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.

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

- : Immediate medical attention is required. Causes burns. 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. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

##### *Unsuitable extinguishing media*

- : Do not use direct stream of water, which can result in a dust cloud and explosion hazard.

#### 5.2 Special hazards arising from the substance or mixture

- : Not considered flammable. Burning produces obnoxious and toxic fumes.

#### 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. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

##### *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. Dike for water control. Do not allow run-off from fire fighting to enter drains or water courses.



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### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

- : All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

#### 6.2 Environmental precautions

- : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

#### 6.3 Methods and material for containment and cleaning up

- : Remove all sources of ignition. Ventilate area of release. Stop spill or leak at source if safely possible. Dike for water control. Recovered solutions can be carefully diluted with water and then neutralized with acids, such as acetic acid (vinegar) or hydrochloric acid. 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).

#### 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 in a well-ventilated area. Wear chemically resistant protective equipment during handling. See Section 8 for additional personal protection advice when handling this product. Do not ingest. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and flame. Keep away from bases, metals and other incompatibles. Keep container tightly closed when not in use. Wash thoroughly after handling.

#### 7.2 Conditions for safe storage, including any incompatibilities

- : Store in a cool, dry, well-ventilated area. 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. Inspect periodically for damage or leaks. Store in corrosion-resistant containers. After prolonged storage, may release explosive peroxides in the presence of air. Rate of peroxide formation is not known. Direct sunlight or heat may accelerate the release of peroxides.

#### 7.3 Specific end use(s)

- : Refrigeration coil scale remover cleaner.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control Parameters

<b>Exposure Limits:</b>			
<b>Chemical Name</b>	<b>Exposure Limits</b>	<b>Type</b>	<b>Notes</b>
Hydrogen chloride	5 ppm (8 mg/m <sup>3</sup> ) (TWA) 10 ppm (15 mg/m <sup>3</sup> ) (STEL)	European Union (OEL)	None.
	5 ppm (7.6 mg/m <sup>3</sup> ) (STEL)	France (OEL)	None.
	2 ppm (3.0 mg/m <sup>3</sup> ) (TWA)	Germany (OEL)	(exposure factor 2)



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5 ppm (8 mg/m <sup>3</sup> ) (TWA) 10 ppm (15 mg/m <sup>3</sup> ) (STEL)	Italy (OEL)	None.
5 mg/m <sup>3</sup> (TWA) 10 mg/m <sup>3</sup> (STEL)	Poland (OEL)	None.
5 ppm (7.6 mg/m <sup>3</sup> ) (TWA) 10 ppm (15 mg/m <sup>3</sup> ) (STEL)	Spain (OEL)	None.
1 ppm (2 mg/m <sup>3</sup> ) (TWA) 5 ppm (8 mg/m <sup>3</sup> ) (STEL)	The United Kingdom (WELs)	(aerosol mist and gas)

### **Biological Exposure Indices:**

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

Derived No Effect Level (DNEL) :

(CAS 7647-01-0) workers inhalation local effects long term exposure 8 mg/m<sup>3</sup> ; general population inhalation local effects long term exposure 8 mg/m<sup>3</sup> workers inhalation local effects acute/short term exposure 15 mg/m<sup>3</sup> general population inhalation local effects acute/short term exposure 15 mg/m<sup>3</sup>

Predicted No Effect Concentration (PNEC) :Not available.

### **8.2 Exposure controls**

#### **Ventilation and engineering measures**

: Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

**Respiratory protection** : If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Confirmation of which type of respirator is most suitable for the intended application should be obtained from respiratory protection suppliers. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

**Skin protection** : Wear chemically protective gloves (impervious), boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear impervious gloves, such as butyl rubber. Unsuitable material: polyvinyl alcohol. Advice should be sought from glove suppliers.

**Eye / face protection** : Chemical splash goggles must be worn when handling this material. A full face shield may also be necessary. See also EN 166.

#### **Other protective equipment**

: Other equipment may be required depending on workplace standards. An eyewash station and safety shower should be made available in the immediate working area.

#### **General hygiene considerations**

: Avoid breathing vapour or 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 and wash contaminated clothing before re-use. Do not take contaminated clothing home.

### **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** : Liquid.  
**Colour** : Clear to yellow  
**Odour** : Pungent odour.  
**Odour threshold** : Not available.  
**pH** : <2  
**Flash point** : Not applicable.



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- Flashpoint (Method)** : Not applicable.  
**Lower flammable limit (% by vol.)**  
: Not applicable.  
**Upper flammable limit (% by vol.)**  
: Not applicable.  
**Auto-ignition temperature**  
: Not applicable.  
**Decomposition temperature**  
: Not available.  
**Oxidizing properties** : Not applicable  
**Explosive properties** : Not explosive  
**Initial boiling point and boiling range**  
: 110°C  
**Melting/Freezing point** : Not available.  
**Relative density** : 1.1  
**Solubility in water** : Soluble  
**Other solubility(ies)** : Not available.  
**Vapour pressure** : Same as water  
**Vapour density** : Not available.  
**Partition coefficient: n-octanol/water**  
: Not available.  
**Viscosity** : Not available.  
**Evaporation rate (BuAe = 1)**  
: Negligible.  
**Particle characteristics** : Not applicable.

### 9.2 Other Information

- Volatiles (% by weight)** : Not available.  
**Volatile organic Compounds (VOC's)**  
: Not available.  
**Other physical/chemical comments**  
: Not applicable

## SECTION 10. STABILITY AND REACTIVITY

- 10.1 Reactivity** : Not normally reactive. Contact with metals may release small amounts of flammable hydrogen gas. Corrosive in contact with metals After prolonged storage, may release explosive peroxides in the presence of air. Rate of peroxide formation is not known. Direct sunlight or heat may accelerate the release of peroxides.
- 10.2 Chemical stability** : Stable under the recommended storage and handling conditions prescribed.
- 10.3 Possibility of hazardous reactions**  
: Hazardous polymerization does not occur. Contact with metals may release small amounts of flammable hydrogen gas.
- 10.4 Conditions to avoid** : Avoid heat and open flame. Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials. Keep out of direct sunlight.
- 10.5 Incompatible materials**  
: Acids; Strong oxidizing agents;Metals (e.g. Aluminum, brass, copper).
- 10.6 Hazardous decomposition products**  
: Peroxides



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### SECTION 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on Toxicological effects:

- Acute toxicity** : Acute toxicity, oral - Category 4 Harmful if swallowed.
- Skin corrosion/Irritation** : Causes severe skin burns.
- Serious eye damage/irritation** : Causes serious eye damage. Permanent eye damage including blindness could result.
- Respiratory or skin sensitisation** : Not expected to be a skin or respiratory sensitizer.
- Germ cell mutagenicity** : Not expected to be mutagenic in humans.
- Carcinogenicity** : Not classifiable as a human carcinogen, based on currently available data. No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive toxicity** : Not expected to cause reproductive effects.
- STOT-single exposure** : May cause respiratory irritation.
- 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** : Ingestion, Skin contact, eye contact, inhalation.
- Effects of acute exposure** : Ingestion causes burns of the upper digestive and respiratory tracts. Causes severe skin burns. Symptoms may include redness, itching and swelling. Causes serious eye damage. Symptoms may include redness, pain, tearing and conjunctivitis. Could result in permanent damage and blindness. Inhalation can cause severe respiratory irritation. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.

#### Potential Chronic Health Effects

- : Chronic skin contact with low concentrations may cause dermatitis.

#### 11.1.1 Acute Toxicity

- Toxicological data** : See below for individual ingredient acute toxicity data.  
 The calculated ATE values for this mixture are:  
 ATE oral = 958.03 mg/kg  
 ATE inhalation (mists) = 23.55 mg/L

Chemical name	LC <sub>50</sub> (4hr)	LD <sub>50</sub>	
	inh, rat	(Oral, rat)	(Rabbit, dermal)
Hydrogen chloride	1.05- 1.175 mg/L	238-277 mg/kg	5010 mg/kg

#### 11.2 Information on other Hazards

- : None known or reported by the manufacturer.
- 11.2.1 Endocrine disrupting properties : Not applicable
- 11.2.2 Other hazards : Not applicable

### SECTION 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity** : The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.



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### Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Hydrogen chloride	7647-01-0	4.92 mg/L (Cyprinus carpio)	n/av	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Hydrogen chloride	7647-01-0	n/av	n/av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Hydrogen chloride	7647-01-0	0.492 mg/L/72 hours (Green algae)	n/av	None.

### 12.2 Persistence and degradability

: Biodegradation is not applicable to inorganic materials.

### 12.3 Bioaccumulation potential

: No data is available on the product itself.

### Components

### Partition coefficient n-octanol/water (log Kow)

### Bioconcentration factor (BCF)

Hydrogen chloride (CAS 7647-01-0)	N/Av	N/Av
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12.4 Mobility in soil : No data is available on the product itself.

### 12.5 Results of PBT and vPvB assessment

: No data is available on the product itself.

### 12.6 Endocrine disrupting properties

: No data is available on the product itself.

### 12.7 Other Adverse Environmental effects

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

12.8 Additional information : Not applicable

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods:

**Handling for Disposal** : Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

**Methods of Disposal** : 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.



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### 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	UN1760	CORROSIVE LIQUID, N.O.S. (Hydrogen chloride)	8	II	
EU ADR/RID Classification Code	C9 - Other corrosive substances: Liquid				
EU ADR / RID Hazard Identification Number	80 - corrosive or slightly corrosive substance				
ADR/RID Additional information	May be shipped as LIMITED QUANTITY when transported in quantities no larger than 1 Litre, in packages not exceeding 30 kg gross mass.				
ICAO/IATA	UN1760	Corrosive liquid, n.o.s. (Hydrogen chloride)	8	II	
ICAO/IATA Additional information	Refer to ICAO/IATA Packing Instruction				
IMDG	UN1760	CORROSIVE LIQUID, N.O.S. (Hydrogen chloride)	8	II	
IMDG Additional information	Consult the IMDG regulations for exceptions. EmS No. F-A,S-B				

**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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: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous substances and mixtures. This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) No. 453/2010].

### Authorisations

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

### Restrictions on use

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: Not applicable.

Directive 94/33/EC on the protection of young people at work: (CAS# 7647-01-0)

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work: (CAS# 7647-01-0)

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.

Water contaminating class (Germany) -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  
ATE: Acute Toxicity Estimate  
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%  
EEC: European Economic Community  
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  
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



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- Information Source** :
1. Material Safety Data Sheet from manufacturer.
  2. Canadian Centre for Occupational Health and Safety, CCHInfoWeb Databases
  3. European Chemicals Agency, Classification Legislation
  4. OECD - The Global Portal to Information on Chemical Substances

**Preparation Date (dd/mm/yyyy)** : 16/10/2024


**Regulation and Procedure** :

Based on expert judgement:  
 Corrosive to metals  
 Skin corrosion  
 Specific target organ toxicity, single exposure

H-phrases (full-text)  
 H290: May be corrosive to metals.  
 H314 - Causes severe skin burns and eye damage.  
 H319 - Causes serious eye irritation.  
 H335 - May cause respiratory irritation.  
 H413 - May cause long lasting harmful effects to aquatic life.

**Other special considerations for handling**

- : Provide adequate information, instruction and training for operators.

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

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