



## Instructions for Water Table Treatment

Using Plasma Anti-Rust 2309 and Anti-Fungal 8208 Tablets

Swift-Cut partno.305000 Plasma Anti-Rust 2309, corrosion inhibitor

Swift-Cut partno.305005 Plasma Anti-Fungal 8208 Tablets, biocide

### **Swift-Cut 1250 water table**

160 Litres = 2309 Anti-Rust -1.6litres per fill

8208 Anti-Fungal tablets x1 per week

### **Swift-Cut 2500 water table**

320 litres = 2309 Anti-Rust-3.2 litres per fill

8208 Anti-Fungal tablets x2 per week

### **Swift-Cut 3000 water table**

435 litres = 2309 Anti-Rust-4.4 litres per fill

8208 Anti-Fungal tablets x2 per week

We would recommend adding the given dosage of the 2309 to the water tank first allowing it to mix for 1 hour and then weekly adding the 8208 as recommended. The 8208 tablet should be added to the water table and allowed to dissolve and this should be carried out on a weekly basis.

There should be no problem discharging the water down the foul sewer, but we would recommend that you check with your local environmental policy regarding the disposal of waste water.

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Burton Upon Trent  
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## SWC 2309 (Plasma Anti-Rust)

### EU legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

### Guidance

Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

General information	Only trained personnel should use this material. Further details may be available from the supplier.
Key literature references and sources for data	REACH registered substances database. Other safety data sheets relevant to individual chemical constituents within this product.
Revision comments	Supplier contact details changed.
Revision date	28/01/2020
Revision	3
Supersedes date	26/04/2018
SDS number	20433
SDS status	Approved.
Risk phrases in full	Not classified. R20/22 Harmful by inhalation and if swallowed. R36 Irritating to eyes. R36/37/38 Irritating to eyes, respiratory system and skin. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R60 May impair fertility. R61 May cause harm to the unborn child.
Hazard statements in full	H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H360FD May damage fertility. May damage the unborn child. H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## SWC 2309 (Plasma Anti-Rust)

### 12.6. Other adverse effects

Other adverse effects      None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

General information      Contact a licensed waste disposal company.

Disposal methods      Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

General      The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

UN No. (IATA)

### 14.2. UN proper shipping name

Not applicable.

Proper shipping name (IATA)

### 14.3. Transport hazard class(es)

No transport warning sign required.

IATA class

IATA label

### 14.4. Packing group

Not applicable.

IATA packing group

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to      Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code

## SECTION 15: Regulatory information

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

## SWC 2309 (Plasma Anti-Rust)

**Stability** Stable at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Not determined. Will not polymerise.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time. Avoid freezing temperatures

### 10.5. Incompatible materials

**Materials to avoid** Acids Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicological effects** Low toxicity

#### Acute toxicity - oral

**ATE oral (mg/kg)** 19,230.76923077

**Inhalation** Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.

**Ingestion** May cause discomfort if swallowed.

**Skin contact** Irritating to skin.

**Eye contact** Irritating to eyes.

## SECTION 12: Ecological information

**Ecotoxicity** Not classified as environmentally hazardous for supply. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### 12.1. Toxicity

**Toxicity** Low toxicity

### 12.2. Persistence and degradability

**Persistence and degradability** Not persistent No data available.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

### 12.4. Mobility in soil

**Mobility** The product is soluble in water.

**General notes:**

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

## SWC 2309 (Plasma Anti-Rust)

### Occupational exposure limits

#### DISODIUM TETRABORATE DECAHYDRATE

Long-term exposure limit (8-hour TWA): WEL 5 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

#### Ingredient comments

WEL = Workplace Exposure Limits

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

The following protection should be worn: Chemical splash goggles.

#### Hand protection

It is recommended that chemical-resistant, impervious gloves are worn. To protect hands from chemicals, gloves should comply with European Standard EN374. Wear protective gauntlets made of the following material: Butyl rubber. Nitrile rubber. Polyvinyl chloride (PVC). Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

#### Hygiene measures

Provide eyewash station and safety shower. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

#### Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless to brown solution
Odour	Characteristic.
pH	pH (concentrated solution): 7-8
Relative density	1.00-1.10 @ °C
Solubility(ies)	Soluble in water.

### 9.2. Other information

Other information	None.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

#### Reactivity

There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

## SWC 2309 (Plasma Anti-Rust)

**General information** None noted, however, the casualty should be transferred to hospital if any unusual adverse symptoms develop.

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

**Notes for the doctor** Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

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

**Specific hazards** No unusual fire or explosion hazards noted.

**Hazardous combustion products** Heating may generate the following products: Toxic and corrosive gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting** No specific firefighting precautions known.

**Special protective equipment for firefighters** Wear chemical protective suit.

## SECTION 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

**Environmental precautions** Observe all national regulations Avoid discharge to the aquatic environment.

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

**Methods for cleaning up** Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Flush away spillage with plenty of water. Flush contaminated area with plenty of water. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer.

### 6.4. Reference to other sections

**Reference to other sections** For waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes.

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

**Storage precautions** Keep container tightly closed, in a cool, well ventilated place. Only store in correctly labelled containers. Keep containers upright.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**Usage description** Use as directed by supplier

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

## SWC 2309 (Plasma Anti-Rust)

### Supplemental label information

RCH002b For professional users only.  
RCH004b Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

### Contains

Acetic acid, 2-hydroxy-2-phosphono-, potassium salt

### 2.3. Other hazards

Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>DISODIUM TETRABORATE DECAHYDRATE</b>			<b>1-5%</b>
CAS number: 1303-96-4	EC number: 215-540-4	REACH registration number: 01-2119490790-32-XXXX	
<b>Classification</b> Repr. 1B - H360FD		<b>Classification (67/548/EEC or 1999/45/EC)</b> Repr. Cat. 2; R60, R61	
<b>BENZOTRIAZOLE</b>			<b>1-5%</b>
CAS number: 95-14-7	REACH registration number: 01-2119979079-20-XXXX		
<b>Classification</b> Acute Tox. 4 - H302 Eye Irrit. 2 - H319 Aquatic Chronic 3 - H412		<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn; R20/22. Xi; R36. R52/53.	
<b>SODIUM MOLYBDATE</b>			<b>1-5%</b>
CAS number: 7631-95-0	EC number: 231-551-7	REACH registration number: 01-2119489495-21-XXXX	
<b>Classification</b> Not Classified		<b>Classification (67/548/EEC or 1999/45/EC)</b> Xi; R36/37/38.	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### Description

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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



**SAFETY DATA SHEET**  
**SWC 2309 (Plasma Anti-Rust)**

According to Regulation (EC) No 1907/2006, Annex II

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product name SWC 2309 (Plasma Anti-Rust)

Product number SWC-2309

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

Identified uses Corrosion inhibitor for closed systems

**1.3. Details of the supplier of the safety data sheet**

Supplier Swift Cut Automation  
1 Lancaster Park  
Newborough Road  
Needwood  
Burton-on-Trent  
DE13 9PD  
+44 (0)1543 473 300  
support@swift-cut.co.uk

**1.4. Emergency telephone number**

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification (EC 1272/2008)**

Physical hazards Not Classified

Health hazards Skin Sens. 1 - H317

Environmental hazards Not Classified

**2.2. Label elements**

**Hazard pictograms**



Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.

Precautionary statements P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents/ container in accordance with national regulations.  
P401 Store in accordance with national regulations.



## Product Data Sheet

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necessary to adjust the pH separately by the addition of a pH conditioner product - please contact us for further advice.

In systems requiring significant passivation, higher initial dosages may be required to yield the required inhibitor residual.

### **Safety, Storage & Handling**

For full details concerning safety precautions, storage and handling procedures for this product please refer to the latest Safety Data Sheet.

Doc. ref: 08-11.A

### **Additional Information & Support**

#### **Swift Cut Automation**

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## Product Data Sheet

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### Plasma Anti-Rust 2309

#### Corrosion Inhibitor for Closed Water Circulating Systems Containing Aluminium

##### General Description

This product is a high performance corrosion inhibitor developed for closed water circulating systems containing aluminium. It is a corrosion inhibitor based on a novel blend of organic and inorganic corrosion inhibitors, including molybdate, intended to protect steel, copper and other non-ferrous metals. As such it is an ideal treatment for closed chilled water and low pressure heating systems.

##### Important

Whilst this product is designed to protect systems which incorporate aluminium it should **NOT** be used in systems with Stelrad Super Plus Modular boilers where an alternative product COPAL should be used, and in all applications where aluminium is present it is important to control the pH in the range 7 - 8.

##### Product Benefits

- Excellent protection for systems which incorporate aluminium.
- High performance corrosion inhibitor.
- Protects steel, copper and other non-ferrous metals.
- Ideal treatment for closed chilled water and low pressure heating systems.

##### Product Properties

- Appearance - Golden brown coloured solution
- Non-volatile

##### Application & Dosage Information

For systems containing no aluminium this product should be dosed at 0.5 to 1% (5,000 -10,000 ml/m<sup>3</sup>) in order to give a reserve of 50ppm of sodium molybdate.

For systems containing aluminium the dosage of 1-1.5% should be added in order to maintain a minimum reserve of 100ppm of sodium molybdate. In certain circumstances it may be