

# Safety Data Sheet



## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Name/Identifier** Scale & Corrosion Inhibitor  
**Product Code** WT3901(1)  
**Product Use** Controls scale, corrosion and rust formation.  
**Company Information** Vance Chemicals Pte Ltd  
No.24 Gul Lane  
Singapore 629418  
+65 6863 0863  
[msds@mr-mckenic.com](mailto:msds@mr-mckenic.com)  
**Emergency Contact** +65 9299 8024

## SECTION 2 HAZARDS IDENTIFICATION

### GHS CLASSIFICATION

Health		Environmental	Physical
Eye irritation	Category 1	Not Classified	Not classified
Skin irritation	Category 1		
Acute toxicity (Oral)	Category 4		
Acute toxicity (Dermal)	Category 4		

### GHS LABEL:



**Signal Word:** Danger

### Hazard Statements:

H302 Harmful if swallowed  
H312 Harmful in contact with skin  
H314 Causes severe skin burns and eye damage  
H318 Causes serious eye damage

### Prevention:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

### Response:

P301+P312 IF SWALLOWED: Call a POISON CENTER if you feel unwell.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower



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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 CENTRE or doctor/physician.  
P321 Specific treatment (see supplemental first aid instructions on this label).  
P330 Rinse mouth.  
P363 Wash contaminated clothing before reuse.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/container to an approved waste disposal plant.

## SECTION 3 COMPOSITIONS / INFORMATION ON INGREDIENTS

Chemical Identity	CAS #	Weight %
Zinc chloride	7646-85-7	<15
Phosphoric acid 85%	7664-38-2	<5
Isopropyl alcohol	67-63-0	<5
Non-hazardous materials	Mixture	>80

## SECTION 4 FIRST AID MEASURES

**Eye Contact**

Immediately flush eyes with large amounts of water for at least 15 minutes while holding the eyelids open. If redness, swelling, pain and blister occur, transport to the nearest medical facility for additional treatment.

**Skin Contact**

Wash exposed area thoroughly with soap and water. If redness, swelling, pain and blister occur, transport to the nearest medical facility for additional treatment.

**Inhalation**

Remove the victim into fresh air. Seek for medical treatment in the event of symptoms.

**Ingestion**

Seek medical advice immediately. Rinse mouth with water and do not induce vomiting.

## SECTION 5 FIRE FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing agents appropriate for surrounding fire.

**Unsuitable Extinguishing Media**

Not determined.

**Specific Hazards Arising from the Chemical**

Oxides of sulfur.

**Protection for Fire-fighters**

Evacuate personnel to safe areas. Intervention only by capable personnel who are trained and aware of the hazards of the product. In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Clean contaminated surface thoroughly.

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## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal Precautions and Protective Equipment

Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Keep away from incompatible products. Isolate the area.

### Environmental Precautions

Prevent discharges into the environment (sewers, rivers, soils). Immediately notify the appropriate authorities in case of discharge.

### Method for Cleaning Up & Containment

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Call for assistance for disposal.

### Emergency Procedures

Shut off leaks, if possible without personal risks. Prevent from spreading or entering drains, ditches or rivers by using sand, earth or other appropriate barriers. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Monitor area with combustible gas indicator.

## SECTION 7 HANDLING AND STORAGE

### Precautions for Safe Handling

Do not eat, drink or smoke in work area. Avoid contact with eye, skin and clothing.

After handling, always wash hands thoroughly with soap and water. Use only with adequate ventilation. Avoid breathing vapors or spray mists. Avoid large quantities of material into live electrical motors and other such equipments.

### Conditions for Safe Storage

Keep container dry. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place.

Storage Temperature : Ambient  
Storage/Transport Pressure : Atmospheric

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Controls

Ensure adequate ventilation. Provide appropriate exhaust ventilation at machinery. Refer to protective measures listed in sections 7 and 8. Apply technical measures to comply with the occupational exposure limits.

### Personal Protective Equipment (PPE)

#### Eye Protection

Eye protection is not required under normal conditions of use. If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety goggles.

#### Skin Protection

No skin protection is required for single, short duration exposures. For prolonged or repeated exposures, use impervious clothing (boots, gloves, aprons, etc) over parts of the body subjected to exposure. Launder soiled clothes. Proper dispose of contaminated leather articles including shoes, which cannot be decontaminated. Use rubber gloves if necessary.

#### Respiratory Protection

In the case of hazardous fumes, wear self-contained breathing apparatus. Self-contained breathing apparatus in medium confinement/insufficient oxygen/in case of large uncontrolled emissions/in all circumstances when the mask and cartridge do not give adequate protection.

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**Thermal Hazards**  
NA

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Light Brown
<b>Odour</b>	Rancid
<b>Odour Threshold</b>	NA
<b>pH</b>	1 – 2
<b>Melting Point/ Freezing Point (°C)</b>	Not determined
<b>Initial boiling point and range (°C)</b>	Not determined
<b>Flash Point (°C) [According to ISO 3679, Closed Cup Testing]</b>	No flash point detected (From ambient temperature to 93°C)
<b>Evaporation Rate</b>	Not determined
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/lower Flammability (Explosive) Limits:</b>	Not determined
<b>Vapour Pressure</b>	Not determined
<b>Vapour Density</b>	Not determined
<b>Relative Density</b>	1.13 ± 0.03
<b>Solubility in water</b>	Soluble
<b>Partition coefficient (N-Octanol/water)</b>	Not determined
<b>Auto-ignition Temperature (°C)</b>	Not determined
<b>Decomposition Temperature:</b>	Not determined
<b>Viscosity (mPa s)</b>	Not determined

## SECTION 10 STABILITY AND REACTIVITY

### **Reactivity/Incompatible Materials**

Strong oxidizers, reducing agents, metals, acids, and alkalis.

### **Chemical Stability**

Stable at normal conditions of use.

### **Possibility of Hazardous Reactions**

Not determined

### **Hazardous Decomposition Products**

Oxides of sulphur.

### **Conditions to Avoid**

Not applicable.

### **Materials to Avoid**

Strong oxidizers. reducing agents, metals, acids, and alkalis.

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## SECTION 11 TOXICOLOGICAL INFORMATION

### **Acute Toxicity Estimate of the mixture (ATE)**

Acute oral toxicity (LD50): 520 mg/kg [Rat].

Acute dermal toxicity (LD50): 1880 mg/kg [Rat].

Acute inhalation (LC50): 33 mg/l[Rat].

## SECTION 12 ECOLOGICAL INFORMATION

### **Toxicity**

This product's Aquatic Toxicity has been estimated by Addition Method.

### **Persistence/Degradability**

Not expected to bio-accumulate significantly

### **Bio accumulative Potential**

Not expected to bio-accumulate significantly

## SECTION 13 DISPOSAL CONSIDERATIONS

### **Local Legislation**

Dispose in compliance with local/federal and national regulations. It is recommended to contact the producer for recycling/recovery. Or send the product to an authorized hazardous waste incinerator.

### **Container Disposal**

To avoid treatments, as far as possible, use dedicated containers. If not, rinse the empty containers with a low volatility hydrocarbon and treat the effluent in the same way as waste. Containers that cannot be cleaned must be treated as waste.

## SECTION 14 TRANSPORT INFORMATION

### **Land (ADR)**

UN number	3264
UN Class	8
Subsidiary risk	NA
Packing Group	III
Proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid, Zinc Chloride)

**HIN** NA

### **Sea (IMDG)**

UN number	3264
UN Class	8
Subsidiary risk	NA
Packing Group	III
Proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid, Zinc Chloride)
Marine pollutant	NA

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EmS F-A, S-B

## Air (IATA)

UN number	3264
UN Class	8
Subsidiary risk	NA
Packing Group	III
Proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid, Zinc Chloride)

## Special precautions:

Before transportation, make sure the containers are tightly sealed and that there are no liquid or gas leaks.

When transporting containers, be sure that they are tightly fastened. An appropriate buffer material should be placed between them to prevent them from bumping each other and being damaged during transport.

## SECTION 15 REGULATORY INFORMATION

### Applicable national regulations:

#### Standards on Hazard communication for hazardous chemicals and dangerous goods

- SS 586: Part 1: 2014-Transport and storage of dangerous goods
- SS 586: Part 2: 2014-GHS of classification and labelling of chemicals
- SS 586: Part 3: 2008-Preparation of safety data sheet

#### MOM: Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations

- This product is subject to SDS, labelling, PEL and other requirements in the Acts/Regulations.

#### NEA: Environmental Protection and Management Act & Environmental Protection and Management (Hazardous Substances) Regulations

- This product is not subject to control under this Acts/Regulations.

#### SCDF: Fire Safety Act & Fire Safety (Petroleum and Flammable Materials) Regulations

- This product is not subject to the requirement of this Acts/Regulations.

#### SPF: The Arms and Explosive Act, the Arms and Explosives (Explosives) Rules, and the Arms and Explosives (Explosive Precursors) Rules

- This product is not subject to the requirement of this Acts/Regulations

## SECTION 16 OTHER INFORMATION

**Department issuing date sheet:** Vance Chemicals Quality Control and Laboratory

**Original Issue date:** 1<sup>st</sup> January 2010

**Revision no.:** 05

**Revision date:** 17 September 2020

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