



# Scale Zero

# **Safety Data Sheet**

Date of Issue: 16/05/2017

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

### 1.1 Product Identifier

Product Form: Liquid Mixture
Product Name: Scale Zero
Product Code: STC0208

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

**Use of the mixture:** Descaler

### 1.3 Details of the supplier of the safety data sheet

Sci-Tech Engineered Chemicals Inc.

9902 90th Avenue Morinville AB, T8R 1K7

Ph: 780-960-1200 Fx: 780-960-1201

www.scitechinc.ca

# 1.4 Emergency telephone number

CANUTEC (613) 996-6666

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance of mixture

## WHMIS 2015 - GHS Classification

Skin Corrosion 1B
Eye Damage 1
Acute toxicity 4
Aquatic toxicity 2

# 2.2 Label elements





#### **DANGER**

**Hazards:** H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.H335 May cause respiratory irritation.

	H318	Causes serious eye damage.
	H412	Harmful to aquatic life with long lasting effects.
Precautions:	P202	Do not handle until all safety precautions have been read and understood.
	P102	Keep out of reach of children.
	P103	Read label before use.
	P280	Use personal protective equipment as required.
	P261	Avoid breathing dust/fumes/mist/vapours/spray.
	P262	Do not get in eyes, on skin, or on clothing.

#### 2.3 Other Hazards

H290 May be corrosive to metals.

Keep container tightly closed.

SECTION 3: Composition/Information on ingredients					
Component	CAS#	Concentration	LD50 (rat, oral)		
Phosphoric acid	7664-38-2	30 - 50 %	1530 mg/kg		
Citric acid	77-92-9	5- 10 %	3000 mg/kg		

# **SECTION 4: First-aid measures**

P233

Eye Contact: In case of EYE CONTACT, remove contact lenses and flush with water or saline solution for at least 15

minutes. Seek immediate medical assistance. May cause severe and permanent eye damage.

**Skin Contact:** In case of SKIN CONTACT, remove contaminated clothing and thoroughly rinse skin with water. If burns

or persistent irritation are present, seek medical assistance. May cause skin burns or irritation.

**Inhalation:** In case of INHALATION, remove victim to fresh air. If irritation persists seek medical attention. May

cause irritation of the upper respiratory tract.

**Ingestion:** In case of INGESTION, give victim a glass of water to dilute the chemical in the stomach. DO NOT induce

vomitting. If victim vomits, lean them forward to prevent aspiration into the lungs. May cause buring of the esophagus, stomach resulting in severe gastrointestinal distress including vomitting and diarrhea.

# **SECTION 5: Fire fighting measures**

**Extinguishing media:** Non- flammable. Use media appropriate for surrounding fire.

**Chemical hazards:** 

Spilled chemical is corrosive and can generate heat and carbon dioxide if mixed with acids.

**Protective equipment for fire** Standard firefighter bunker gear.

fighters:

### **SECTION 6: Accidental release measures**

Use recommended respiratory protection. Wear suitable protective clothing, gloves and eye/face protection.

Stop leak if safe to do so. Evacuate unnecessary personnel. Ventilate area. Keep upwind. Contain spill and prevent entry into sewers. Colect spilled material and place in a container suitable for disposal. Small spills and residue can be diluted with baing soda or soda ash and flushed to the sewer.

# **SECTION 7: Handling and storage**

**Precautions for handling:** Wear proper protective equipment when handling product. Avoid generating mists. Dispense

directly from container when possible.

**Condition for safe storage:** Store in a cool, dry area away from incompatibles. Keep container closed and out of reach of

children when not in use.

# **SECTION 8: Exposure controls/personal protection**

**Control parameters:** Provide sufficient ventilation to keep vapors below the permissible exposure limit. Ensure

adequate ventilation, especially in confined areas. Packaging and unloading areas and open processing equipment may require mechanical exhaust systems. Corrosion-proof construction

recommended.

**Appropriate** If possible, meter directly from container to avoid contact with the concentrate.

engineering controls:

**Personal protective** If directly handling concentrate, use safety glasses with side shields and nitrile gloves. Ensure

**equipment:** access to eye wash and emergency shower stations.

# **SECTION 9: Physical and chemical properties**

Appearance: Clear colorless liquid

Odour: Sharp

**Odour threshold:** n.av.

**pH:** 1.0 +/- 0.5

Melting point: 0 °C

**Initial boiling point and boiling range:** n.av.

Flash point Non-flammable

**Evapouration rate:** n.av.

Flammability: Non-flammable

Upper/lower flammability limits: n.av.

Vapour pressure: n.av.

Vapour density: n.av.

Relative density: 1.28 g/mL

**Solubility:** n.av.

**Partition coefficient: n-octanol/water:** n.av.

Auto-ignition temperature: n.ap.

**Decomposition temperature:** n.av.

Viscosity: n.av.

# **SECTION 10: Stability and reactivity**

**Reactivity:** Non-reactive.

**Chemical stability:** Stable under normal conditions.

**Hazardous reactions:** Contact with bases will release heat and carbon dioxide.

Conditions to avoid: Avoid contact with bases. Contact with bases can generate heat and carbon

dioxide.

**Incompatible materials:** Avoid contact with bases, strong reducers and strong oxidizers.

**Hazarous decomposition products:** Can thermally decompose to produce carbon dioxide and carbon monoxide.

#### **SECTION 11: Toxicological information**

**Routes of exposure:** Ingestion, skin and eye contact.

Symptoms of exposure: Contact with skin and eyes can cause severe burning and permanent damage.

Ingestion can cause pain, gastrointestinal distress and perforation of the

gastrointestinal system.

**Delayed and immediate effects:** Contact with skin and eyes can cause immediate damage.

Acute toxicity estimate: 2100 mg/kg rat (oral)

### **SECTION 12: Ecological information**

**Ecotoxicity:** Data not available

Persistence and degradability: Data not available

Bioaccumulative potential: Low potential for bioacculumation

Mobility in soil: Data not available

Other adverse effects: Inorganic phosphates have the potential to increase the growth of feshwater algae,

whose eventual death will reduce the available oxygen for aquatic life.

# **SECTION 13: Disposal considerations**

Product should be disposed of in accordance to provincial or state and local government requirements prior to disposal. If the product was supplied in a single use container, care should be taken to dispose of the container in a responsible manner in accordance to local regulations.

#### **SECTION 14: Transport information**

Canadian TDG: Corrosive Liquid, Acidic, Inorganic n.o.s. (Phosphoric acid, hydrochloric acid): Class 8, UN3264, PG II

### **SECTION 15: Regulatory information**

**DSL:** All components are listed on the Canadian DSL

# **SECTION 16: Other information**

Prepared by: Sci-Tech Engineered Chemicals Research and Development Department

SCI-TECH Inc. believes that all statements, technical information and recommendations contained herein are based on available scientific tests or data which we believe to be reliable. The accuracy and completeness of such data are not

warranted or guaranteed. We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. SCI-TECH assumes no liability or responsibility for loss or damage resulting from the improper use or handling of our products, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the product's label and Safety Data Sheet.

Date prepared: January 30, 2019