



OS-100

Safety Data Sheet

Date of Issue: 26/07/2017

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

1.1 Product Identifier

Product Form: Liquid Mixture

Product Name: OS-100

Product Code: STCS007

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.

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Morinville AB, T8R 1K7

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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

Corrosive to metals 1

Serious eye damage/irritation 2

Eye Damage 1

Acute toxicity 4

2.2 Label elements



Signal word: DANGER

Hazards: H302 Harmful if swallowed.
H318 Causes serious eye damage.

Precautions:	P261	Avoid breathing dust/fumes/mist/vapours/spray.
	P102	Keep out of reach of children.
	P103	Read label before use.
	P280	Use personal protective equipment as required.
	P262	Do not get in eyes, on skin, or on clothing.
	P233	Keep container tightly closed.
	P273	Avoid release to the environment.

2.3 Other Hazards

H290 May be corrosive to metals.

SECTION 3: Composition/Information on ingredients

Component	CAS#	Concentration	LD50 (rat, oral)
Organic salt	506-89-8	60 - 100 %	1121 mg/kg

SECTION 4: First-aid measures

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

Skin Contact: Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Ingestion: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SECTION 5: Fire fighting measures

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

Chemical hazards: At temperatures above 60°C/140°F acid action on most metals may release hydrogen, a highly flammable and explosive gas.

Protective equipment for fire fighters: Standard firefighter bunker gear.

SECTION 6: Accidental release measures

In case of release wear proper protective equipment. For large spills, Try to contain the leak or spill and prevent entry into sewers, waterways or the environment. Slowly neutralize spill with a dilute base (baking soda, soada ash) and collect for disposal. Small spills can be diluted with water and washed down the drain.

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:** Use in an area with good general ventilation
- Appropriate engineering controls:** If possible, meter directly from container to avoid contact with the concentrate. Avoid atomizing in confined spaces.
- Personal protective equipment:** If directly handling concentrate, use safety glasses and nitrile gloves. Ensure access to eye wash and emergency shower stations.

SECTION 9: Physical and chemical properties

- Appearance:** Clear colorless to pale yellow liquid
- Odour:** Characteristic
- Odour threshold:** n.av.
- pH:** 1.0 +/- 0.5
- Melting point:** <-30°C
- Initial boiling point and boiling range:** 100 °C
- Flash point** Non-flammable
- Evaporation rate:** n.av.
- Flammability:** Non-flammable
- Upper/lower flammability limits:** n.av.
- Vapour pressure:** n.av.
- Vapour density:** n.av.
- Relative density:** 1.21 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 and hypochlorites.
Incompatible materials:	Oxidizing materials. This material may be extremely hazardous in contact with chlorates and nitrates. Contact with hypochlorites (eg. Chlorine bleach, sulfides or cyanides) will liberate toxic gases. Contact with alkaline materials (eg. Aqua ammonia) will generate heat.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Routes of exposure:	Ingestion, skin and eye contact.
Symptoms of exposure:	Contact with eyes can cause persistent irritation or damage. Ingestion can cause pain and gastrointestinal distress.
Delayed and immediate effects:	Contact with skin and eyes can cause immediate irritation.
Acute toxicity estimate:	1121 mg/kg rat (oral)

SECTION 12: Ecological information

Ecotoxicity:	Acute LC50 71mg/L Ceriodaphnia dubia 48 hours Acute LC0 >142mg/L Rainbow trout 96 hours
Persistence and degradability:	Data not available
Bioaccumulative potential:	Low potential for bioaccumulation
Mobility in soil:	Data not available
Other adverse effects:	Data not available

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: UN 1760, Corrosive liquid n.o.s. (urea monohydrochloride) Class 8, PG III

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

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