



# Protocol K-390

## 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:** Protocol K-390

**Product Code:** STCK390

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

**Use of the mixture:** Aluminum brightener

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

Sci-Tech Engineered Chemicals

#148-10305 David Road

Acheson AB Canada, T7X 6A4

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 2

Eye Damage 1

#### 2.2 Label elements



#### DANGER

**Hazards:**

H302	Harmful if swallowed.
H332	Harmful if inhaled.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.

<b>Precautions:</b>	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)
Carbamide dihydrogen sulfate	21351-39-3	10 - 20%	>2000 mg/kg
Acid salt	n.av	10 - 20%	>2000 mg/kg

### SECTION 4: First-aid measures

<b>Eye Contact:</b>	In case of EYE CONTACT, remove contact lenses and flush with water or saline solution for at least 15 minutes. If irritation persists, seek medical attention.
<b>Skin Contact:</b>	In case of SKIN CONTACT, remove contaminated clothing and thoroughly rinse skin with water. If persistent irritation is present, seek medical assistance.
<b>Inhalation:</b>	In case of INHALATION, remove victim to fresh air. If irritation persists seek medical attention.
<b>Ingestion:</b>	In case of INGESTION, give victim a glass of water to dilute the chemical in the stomach. DO NOT induce vomiting. If victim vomits, lean them forward to prevent aspiration into the lungs. May cause gastrointestinal distress including vomiting and diarrhea.

### SECTION 5: Fire fighting measures

<b>Extinguishing media:</b>	Non- flammable. Use media appropriate for surrounding fire.
<b>Chemical hazards:</b>	Spilled chemical is extremely slippery.
<b>Protective equipment for fire fighters:</b>	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 (soda ash) and collect for disposal. Small spills can be diluted with water and washed down the drain.

### SECTION 7: Handling and storage

<b>Precautions for handling:</b>	Wear proper protective equipment when handling product. Avoid generating mists. Dispense directly from container when possible.
<b>Condition for safe storage:</b>	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

<b>Control parameters:</b>	Use in an area with good general ventilation
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<b>Appropriate engineering controls:</b>	If possible, meter directly from container to avoid contact with the concentrate. Avoid atomizing in confined spaces.
<b>Personal protective equipment:</b>	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

<b>Appearance:</b>	Clear colorless liquid
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	n.av.
<b>pH:</b>	1.0 +/- 0.5
<b>Melting point:</b>	n.av.
<b>Initial boiling point and boiling range:</b>	n.av.
<b>Flash point</b>	Non-flammable
<b>Evaporation rate:</b>	n.av.
<b>Flammability:</b>	Non-flammable
<b>Upper/lower flammability limits:</b>	n.av.
<b>Vapour pressure:</b>	n.av.
<b>Vapour density:</b>	n.av.
<b>Relative density:</b>	1.09 g/mL
<b>Solubility:</b>	n.av.
<b>Partition coefficient: n-octanol/water:</b>	n.av.
<b>Auto-ignition temperature:</b>	n.ap.
<b>Decomposition temperature:</b>	n.av.
<b>Viscosity:</b>	n.av.

## SECTION 10: Stability and reactivity

<b>Reactivity:</b>	Non-reactive.
<b>Chemical stability:</b>	Stable under normal conditions.
<b>Hazardous reactions:</b>	Contact with acids will release heat and carbon dioxide.
<b>Conditions to avoid:</b>	Avoid contact with acids and hypochlorites.
<b>Incompatible materials:</b>	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.
<b>Hazarous decomposition products:</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

<b>Routes of exposure:</b>	Ingestion, skin and eye contact.
<b>Symptoms of exposure:</b>	Contact with skin and eyes can cause persistent irritation. Ingestion can cause pain and gastrointestinal distress.
<b>Delayed and immediate effects:</b>	Contact with skin and eyes can cause immediate irritation.
<b>Acute toxicity estimate:</b>	>2000 mg/kg rat (oral)

## SECTION 12: Ecological information

<b>Ecotoxicity:</b>	Data not available
<b>Persistence and degradability:</b>	Data not available
<b>Bioaccumulative potential:</b>	Low potential for bioaccumulation
<b>Mobility in soil:</b>	Data not available
<b>Other adverse effects:</b>	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. (organic salts) 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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