



Protocol K-650

Safety Data Sheet

Date revised: June 21, 2023

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

1.1 Product Identifier

Product Form: Liquid Mixture
Product Name: Protocol K-650
Product Code: STCK650

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

Use of the mixture: Calcium, rust, & lime remover

1.3 Details of the supplier of the safety data sheet

Apple Cleaning Supplies Ltd.
Unit 20, 333 - 28th Street NE
Calgary AB, T2A 7P4
780-569-6969

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

Eye irritation 2A

2.2 Label elements

Signal word: WARNING



Hazards: H319 Causes serious eye irritation

Precautions: P262 Do not get in eyes, on skin, or on clothing.
P102 Keep out of reach of children.
P103 Read label before use.
P280 Use personal protective equipment as required.

2.3 Other Hazards

SECTION 3: Composition/Information on ingredients

Component	CAS#	Concentration	LD50 (rat, oral)
Organic salts	506-89-8	5 - 10%	1121 mg/kg
Alcohol ethoxylate	68891-48-0	1 - 5%	>2000 mg/kg

SECTION 4: First-aid measures

Eye Contact:	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.
Skin Contact:	In case of SKIN CONTACT, remove contaminated clothing and thoroughly rinse skin with water. Not expected to cause irritation, but if symptoms appear and persist, seek medical attention.
Inhalation:	In case of INHALATION, remove victim to fresh air. If irritation persists seek medical attention.
Ingestion:	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

Extinguishing media:	Non- flammable. Use media appropriate for surrounding fire.
Chemical hazards:	Spilled chemical is extremely slippery.
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) 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. Avoid long term exposure to aluminum as it may generate hydrogen gas.
Personal protective equipment:	If directly handling concentrate, use safety glasses and nitrile gloves. Ensure access to eye wash station.

SECTION 9: Physical and chemical properties

Appearance:	Clear colorless liquid
Odour:	Characteristic
Odour threshold:	n.av.
pH:	2.0 +/- 0.5
Melting point:	n.av.
Initial boiling point and boiling range:	n.av.
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:	1.04 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. Contact with bleach can release noxious corrosive gas.
Conditions to avoid:	Avoid contact with bases and long term exposure to aluminum. Contact with bleach may release noxious corrosive gas.
Incompatible materials:	Avoid contact with bases, strong reducers and strong oxidizers.
Hazardous decomposition products:	Can thermally decompose to product carbon dioxide and carbon monoxide.

SECTION 11: Toxicological information

Routes of exposure:	Ingestion, skin and eye contact.
Symptoms of exposure:	Contact eyes can cause persistent irritation. Ingestion can cause pain and gastrointestinal distress.
Delayed and immediate effects:	Contact with eyes can cause immediate irritation.
Acute toxicity estimate:	10971 mg/kg rat (oral)

SECTION 12: Ecological information

Ecotoxicity:	Data not available
Persistence and degradability:	Readily biodegradable
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: Not regulated for transport

SECTION 15: Regulatory information

DSL: All components are listed on the Canadian DSL

SECTION 16: Other information

Prepared by: Apple Cleaning Supplies Ltd.

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