K-390 - MATERIAL SAFETY DATA SHEET

SECTION 1 - Product Identification & Use

COMMON NAME: Protocol K-390

MATERIAL IDENTIFIER: K-390

APPLICATION: Acid Wash (Oxidation Remover)

WHMIS CLASSIFICATION: D.2B, E

EMERGENCY CONTACT: CANUTEC

EMERGENCY PHONE: (613) 996-6666

MANUFACTURER:
Sci-Tech Inc.
#340 53016 Hwy 60
Acheson, AB T7X 5A7
(780) 960-1200

DISTRIBUTOR:

SECTION 2 - Hazardous Ingredients

HAZARDOUS INGREDIENTS	%	CAS/UN #	LD(50) OF INGREDIENT	LC(50) OF INGREDIENT
Organic salts	10 - 30	506-89-8	n.av.	n.av.
Acid Salt	10 - 30	n.av.	Rat (Oral) 678 mg/kg	n.av.
Alcohol ethoxylate	1 - 5	68991-48-0	Rat (Oral) 2000 mg/kg	n.av.

SECTION 3 - Physical Data

PHYSICAL STATE:	ODOUR AND APPEARANCE:	SOLUBILITY IN WATER:	ODOUR THRESHOLD:
Liquid	Mild; Colourless	100%	n.av.
SPECIFIC GRAVITY:	**VAPOUR DENSITY (air=1):**	**VAPOUR PRESSURE:**	**% VOLATILE BY VOLUME:**
1.04 ± 0.02	n.av.	n.av.	n.av.
BOILING POINT:	**MELTING POINT:**	**pH:**	**OCTANE-WATER COEFF:**
n.av.	n.av.	1.0 ± 0.5	n.av.

OTHER PERTINENT INFORMATION:
n.av.

SECTION 4 - Fire & Explosion Data

FLAMMABILITY:
This product will not burn or support combustion.

MEANS OF EXTINCTION:
Use media proper for surrounding fire.

SPECIAL PROCEDURES:
It is recommended that a NIOSH approved SCBA be used when either in confined areas or exposed to combustion products.

HAZARDOUS COMBUSTION PRODUCTS:
Heating above 110°C may release carbon dioxide and hydroflouric acid.

FLASHPOINT (°C):	n.av.
AUTOIGNITION TEMPERATURE (°C):	n.av.
LOWER FLAMMABLE LIMIT (% BY VOLUME):	n.av.
UPPER FLAMMABLE LIMIT (% BY VOLUME):	n.av.
EXPLOSION SENSITIVTY TO IMPACT:	n.av.
SENSITIVTY TO STATIC DISCHARGE:	n.av.

SECTION 5 - Reactivity Data

CHEMICAL STABILITY:
Stable under normal conditions.

INCOMPATIBLE MATERIALS:
Avoid contact with oxidizers. This material may be extremely hazardous in contact with chlorates or nitrates. This material is acidic. Contact with hypochlorites will liberate toxic gases. Contact with alkaline materials will release heat.

HAZARDOUS DECOMPOSITION:
May thermally degrade at higher temperatures (110°C) to release hydrofluoric acid, oxides of carbon, nitrogen and boron. Hydrogen gas may be released upon contact with certain metals.

SECTION 6 - Toxicological Properties

INHALATION:
Mist may cause irritation of the upper respiratory tract.

EYE CONTACT:
May cause persistent eye irritation and possible eye damage.

SKIN CONTACT:
Prolonged contact with concentrate may cause slight discomfort.

INGESTION:
May cause nausea, vomiting, irritation of the intestinal tract or more serious injury.

SECTION 7 - Preventative Measures

GLOVES:	Rubber, vinyl, or neoprene gloves required.	**FOOTWEAR:**	Rubber boots required.
RESPIRATOR:	Not required for normal use.	**CLOTHING:**	Rubber, vinyl, or neoprene aprons required.
EYEWEAR:	Chemical goggles or face shield required.	**OTHER:**	Eye-wash station and shower required.

ENGINEERING CONTROL:
Use with adequate general ventilation. Avoid temperatures over 113ºC (235.4 ºF).

LEAK AND SPILL PROCEDURE:
Prevent entry into sewers or streams, dike if needed. Consult local authorities.

WASTE DISPOSAL:
Dispose of in a suitable container according to all local, provincial and federal regulations.

HANDLING PROCEDURES AND EQUIPMENT:
For industrial use only. Avoid ingestion, skin contact and inhalation of vapours. Precautions also apply to empty containers.

STORAGE REQUIREMENTS:
Store in a cool, dry area above freezing and away from incompatibles. Keep container tightly closed when not in use. Protect from damage.

TDG CLASSIFICATION:
Not TDG Regulated.

SECTION 8 - First Aid Procedures

INHALATION:
Remove victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel. Immediately transport victim to an emergency care facility.

EYE CONTACT:
In case of contact with eyes, check for and remove contact lenses. Immediately flush with cold running water for at least 15 minutes. Seek medical attention immediately.

SKIN CONTACT:
Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing and shoes before reuse.

INGESTION:
DO NOT INDUCE VOMITING. Have victim drink large amounts of water. Seek medical attention.

SECTION 9 - Preparation of MSDS

PREPARED BY:	PHONE NUMBER:	CONSTRUCTED:	RELEASED:
SCI-TECH Department of Research and Development	(780) 960-1200	11/19/2007	01/03/2011