0941 - MATERIAL SAFETY DATA SHEET

SECTION 1 - Product Identification & Use

COMMON NAME: Scale Inhibitor (Winter)

MATERIAL IDENTIFIER: 0941

APPLICATION: Scale Inhibition

WHMIS CLASSIFICATION: 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
Methanol	10 - 30	67-56-1	n.av.	n.av.
Ethylene glycol	7 - 13	107-21-1	Rat (Oral) 1300 mg/kg	n.av.
Phosphoric acid	0.5 - 1.5	7664-38-2	n.av.	n.av.

SECTION 3 - Physical Data

PHYSICAL STATE:	ODOUR AND APPEARANCE:	SOLUBILITY IN WATER:	ODOUR THRESHOLD:
Liquid	n.av.; Colourless	100%	n.av.
SPECIFIC GRAVITY:	**VAPOUR DENSITY (air=1):**	**VAPOUR PRESSURE:**	**% VOLATILE BY VOLUME:**
1.07 ± 0.02	n.av.	n.av.	n.av.
BOILING POINT:	**MELTING POINT:**	**pH:**	**OCTANE-WATER COEFF:**
> 100 °C	< 0 °C	3.0 ± 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:
Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. Chemical resistant clothing (splash suit) and a positive pressure SCBA may be necessary.

HAZARDOUS COMBUSTION PRODUCTS:
Phosphorus oxides

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:
Orthophosphoric acid gradually changes to pyrophosphoric acid around 200°C and forms metaphosphoric acid above 300°C.

INCOMPATIBLE MATERIALS:
Incompatible with strong caustics, strong oxidizing agents, reducing agents or organic peroxides, fluorides, halogenated organics, cyanides, sulfides, mercaptans, and nitrides.

HAZARDOUS DECOMPOSITION:
No hazardous decomposition is associated with this product.

SECTION 6 - Toxicological Properties

INHALATION:
Mist can irritate respiratory tract. If mixed with acids or warmed to temperatures greater than 40°C (104°F), NaOCl solutions release chlorine gas. This gas can greatly heighten severity of irritation.

EYE CONTACT:
Concentrated solutions can cause sever burns and permanent eye damage. Mists may cause eye irritation.

SKIN CONTACT:
The degree of irritation caused by this product depends on the concentration of the solution and the duration of contact. Concentrated solutions can cause corrosion of tissue or severe burns.

INGESTION:
Ingestion of this product can result in necrosis of the upper and lower digestive tract and the pancreas. May result in internal bleeding.

SECTION 7 - Preventative Measures

GLOVES:	Rubber, vinyl, or neoprene gloves required.	**FOOTWEAR:**	Rubber boots required.
RESPIRATOR:	NIOSH approved	**CLOTHING:**	Impermeable coveralls required.
EYEWEAR:	Chemical goggles or face shield required.	**OTHER:**	Eye-wash station and shower required.

ENGINEERING CONTROL:
Use with adequate general ventilation.

LEAK AND SPILL PROCEDURE:
Contain spill or leak. Do not allow entry into sewers or waterways. Spilled solutions should be contained by diking. Solutions can be carefully diluted with water and neutralized soda ash or sodium bicarbonate.

WASTE DISPOSAL:
Federal, provincial, and local regulations should be reviewed prior to disposal. Disposal by secure landfill may be acceptable.

HANDLING PROCEDURES AND EQUIPMENT:
Due to the toxic and corrosive nature of this product, it is important that adequate PPE and personal hygiene requirements are met.

STORAGE REQUIREMENTS:
Store in a cool, dry, well-ventilated area. Store in suitable, labeled containers (usually the shipping container). Keep containers tightly closed when not in use and when empty. Protect from damage.

TDG CLASSIFICATION:
Corrosive liquids, acidic, inorganic n.o.s. (Phosphoric acid): Class 8, UN3264, PG III

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, continuously flush eyes with plenty of water or neutral saline solution for at least 60 minutes. Transport to emergency facility.

SKIN CONTACT:
In case of contact with skin, remove contaminated clothing and flush with water for at least 60 minutes. Do not interrupt flushing. Transport to an emergency facility.

INGESTION:
Rinse victim's mouth with water. DO NOT INDUCE VOMITING. Have victim drink 300 mL of water to dilute material in stomach. If milk is available, it may be given AFTER the water. Transport victim to an emergency facility.

SECTION 9 - Preparation of MSDS

PREPARED BY:	PHONE NUMBER:	CONSTRUCTED:	RELEASED:
SCI-TECH Department of Research and Development	(780) 960-1200	07/21/2006	01/03/2011