**EMERGENCY PHONE NUMBERS:** 

CHEMTREC: (800) 424-9300 (24 hrs)

CANADA: CANUTEC (613) 996-6666 (24 hrs)

MATERIAL USE: Restroom Cleaner for Floors

**TENNANT** 701 North Lilac Drive P.O. Box 1452

Minneapolis, MN 55440-1452

PREPARATION INFO: By: Kevin Hobbie

(763) 540-1471 (days) District of Columbia: (202) 483-7616 (24 hrs) MSDS Requests: (800) 553-8033 (651) 649-0406 (nights)

This Material Safety Data Sheet (MSDS) has been prepared in compliance with the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

Issue Date:	September 8, 2003	HAZARD RATING	NFPA	HMIS		NFPA	HMIS		0 = Insignificant
Supersedes:	May 2, 2003	Health	3	2	Reactivity	0	0	2 = Moderate 1 = Slight	COR = Corrosive
Printed:	6/10/04	Fire	1	1	Special	COR	Χ		X = Ask supervisor for guidance.

\*\*\*\*\* I. IDENTIFICATION \*\*\*\*\*

PRODUCT NAME: Formula 710 Multi-Surface Acid Cleaner US DEPT OF TRANSPORTATION (GROUND):

> **UN#**: UN1760 PACKAGING GROUP: ||

**PART NUMBER:** 612023, 612226 HAZARD CLASSIFICATION: Corrosive CHEMICAL FAMILY: Acid Cleaner SHIPPING NAME: Corrosive Liquid, N.O.S.

(contains Phosphoric and Sulfamic Acid)

\*\*\*\*\* II. PHYSICAL DATA \*\*\*\*\*

**BOILING POINT:** 212°F / 100°C FREEZE POINT: 0°F. / -18°C.

**DENSITY:** 1.1 kg/L % VOLATILE: 69 by wt

**SOLUBILITY IN WATER:** mm Hg at 20 °C. Complete VAPOR PRESSURE: Not Available

ODOR THRESHOLD: Not Available 1.7 @ 10% pH:

**VAPOR DENSITY: THAN AIR** PHYSICAL FORM: Liquid Not Available APPEARANCE AND ODOR: Pink/Wintergreen **COEFFICIENT WATER/OIL DISTRIBUTION:** Not Available

THAN N-BUTYL ACETATE VOC g/L (lb/gal): **EVAPORATION RATE:** Slower 402 (3.35)

STATIC DISCHARGE: **MECHANICAL IMPACT:** Not Available Not Available

\*\*\*\*\* III. INGREDIENTS \*\*\*\*\*

All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory. Hazardous ingredients, defined as Controlled Products by Canadian WHMIS, are identified by (HZD) after the chemical ingredient. This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and the MSDS contains all of the information required by the CPR

CHEMICAL	CAS#	<u>% W</u>	OSHA PEL ppm	ACGIH TLV TWA ppm	ACGIH TLV STEL ppm	<u>LD50</u>	LC50 INHALATION
Nonionic Surfactant	9016-45-9	5-10	Not Available	Not Available	Not Available	3000 mg/kg (oral rat) >3 g/kg (skin rabbit)	Not Available
Nonionic Surfactant	68987-81-5	5-10	Not Available	Not Available	Not Available	Not Available	Not Available
Citric Acid (HZD)	77-92-9	5-10	Not Available	Not Available	Not Available	Not Available	Not Available
Dipropylene Glycol Monomethyl Ether (HZD)	34590-94-8	10-20	100	100	150	5135 mg/kg (rat)	Not Available
Phosphoric Acid (HZD)	7664-38-2	1-5	N.Av.	0.25	0.75	Not Available	Not Available
Sulfamic Acid (HZD)	5329-14-6	1-5	Not Available	Not Available	Not Available	Not Available	Not Available

#### SARA Title III Section 313 Information:

Components present in this product at a level which could require reporting under this statute are:

Phosphoric Acid - CAS #7664-38-2 <5% by wt.

#### California Proposition 65 Information:

This product contains the following chemicals that have been designated as cancer and/or reproductive hazards under California Proposition 65.

Trace amounts of Ethylene Oxide - CAS #75-21-8, Propylene Oxide - CAS #75-56-9 and 1,4 Dioxane -

CAS #123-91-1

Formula 710 Multi-Surface Acid Cleaner Page 1 of 2 \*\*\*\*\* IV. FIRE AND EXPLOSIVE HAZARD DATA \*\*\*\*\*

FLAMMABLE: No FLASH POINT: 170°F / 76°C Setaflash

**EXTINGUISHING MEDIA:** Use National Fire Protection Association (N.F.P.A.) Class B extinguishers (carbon dioxide, dry chemical or foam).

SPECIAL FIRE FIGHTING PROCEDURES:

Water may be ineffective, but may be used to cool closed containers to prevent pressure buildup or possible auto ignition when exposed to extreme heat (fog nozzles preferred). Wear self-contained breathing apparatus.

#### UNUSUAL FIRE \_EXPLOSION HAZARD:

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Do not apply to hot surfaces.

# \*\*\*\*\* V. REACTIVITY DATA \*\*\*\*\*

STABILITY: Stable HAZARDOUS POLYMERIZATION (May Occur/Will Not Occur): Will Not

**CONDITIONS TO AVOID:** Not Available

INCOMPATIBILITY (materials to avoid): Strong alkali.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide and oxides of phosphorous, nitrogen, sulfur, ammonia or amines.

## \*\*\*\*\* VI. HEALTH HAZARD DATA \*\*\*\*\*

EFFECTS OF OVEREXPOSURE: THRESHOLD LIMIT VALUE - See Section III for individual ingredients.

PRIMARY ROUTES OF ENTRY: Inhalation & Skin Contact

SKIN CONTACT/ABSORPTION: Skin contact may cause severe irritation. Prolonged or repeated skin contact may cause burns.

EXTERMELY EXTREMELY ITRIBUTE EXTREMELY EXTREME

INGESTION (Swallowing):

Contains materials which will cause a burning sensation, gastric upset, diarrhea and severe inflammation to mucous membranes.

INHALATION (Breathing):

Slight headache. May burn nasal passages.

#### SUPPLEMENTAL HEALTH INFORMATION:

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

# \*\*\*\*\* VII. EMERGENCY AND FIRST AID PROCEDURES \*\*\*\*\*

SKIN CONTACT: Wash immediately with mild soap and water. Rinse thoroughly with cool water.

EYE CONTACT: Flush immediately with water for 15 minutes; CALL A PHYSICIAN.

INGESTION (Swallowing): CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. DO NOT attempt to induce vomiting, give two glasses

of water.

INHALATION (Breathing): Remove to fresh air.

# \*\*\*\*\* VIII. PREVENTIVE MEASURES \*\*\*\*\*

#### SPILL OR LEAK PROCEDURES: STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Absorb with inert material (sand, vermiculite, etc.). Sweep or scoop up and put in disposal container. Flush area with water; prevent washings from entering waterways.

**WASTE DISPOSAL METHOD:** Dispose of in accordance with federal, state and local regulations.

### SPECIAL PROTECTION INFORMATION: RESPIRATORY PROTECTION and VENTILATION:

Unless air monitoring demonstrates vapor/mist levels above applicable limits, no respirator is required. If respirator is required, the appropriate, properly fitted respirator (NIOSH/MSHA approved) should be worn during application. Follow respirator manufacturers directions for respirator use.

PROTECTIVE GLOVES (specify type):

Local exhaust.

EYE PROTECTION (specify type)

Impervous gloves; i.e., rubber, nitrile Chemical splash goggles

**SKIN PROTECTION:** Impervious gloves, chemical splash goggles, and protective clothing.

SPECIAL PRECAUTIONS: PRECAUTIONS TO BE TAKEN IN HANDLING OR STORAGE:

Store inside in a cool (below 100°F or 37.5°C), dry place.

OTHER PRECAUTIONS: Do not take internally. Avoid prolonged contact with skin; contaminated clothing should be removed immediately. Avoid

free fall of liquid in excess of a few inches.

Formula 710 Multi-Surface Acid Cleaner Page 2 of 2