

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND DISTRIBUTOR'S INFORMATION						
NFPA Rating: Health-3; Flammability-0; Reactivity-1; Special- -			HMIS Rating: Health-3; Flammability-0; Reactivity-1; Personal Protection-B			
Manufactured For: Triple S Address: 2 Executive Park Dr. Address: Billerica, MA 01862 Phone: 978-667-7900			DOT Hazard Classification: Corrosive Material 8 Identity (trade name as used on label): Coil Cleaner 3 Coil Cleaner 3			
Emergency Response Number: 1-800-255-3924			Date Prepared: 05/17/96 Prepared By: ES/RC			
NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA			Information Calls: 978-667-7900			
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION						
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
ETHYLENE GLYCOL MONOBUTYL ETHER		111-76-2	Yes	25	25	d
PHOSPHORIC ACID		7664-38-2	Yes	1mg/m3	1mg/m3	d
AMMONIUM BIFLUORIDE (EXP. LIMITS FOR FLUORIDE AS DUST)		1341-49-7	No	N/E	N/E	d
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS						
Boiling Point: 100°C			Specific Gravity (H2O=1): 1.100-1.250			
Vapor Pressure: PSIG @ 70°F (Aerosols): N/A			Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/D			
Vapor Density (Air = 1): N/D			Evaporation Rate (water = 1): 1			
Solubility in Water: Miscible			Water Reactive: No			
Appearance and Odor: Clear to slightly hazy non-viscous liquid with characteristic odor.						
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA						
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) N/A		Auto Ignition Temperature N/A		Flammability Limits in Air by % in Volume: % LEL: N/A % UEL: N/A		
FLASH POINT AND METHOD USED (non-aerosols): Non-combustible			EXTINGUISHER MEDIA: Non-combustible. Use media appropriate to surrounding fire.			
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus.						
Unusual Fire & Explosion Hazards: Reaction with metals may release flammable hydrogen gas. Heat may release corrosive hydrogen fluoride gas or mist.						
SECTION 4 - REACTIVITY HAZARD DATA						
STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE			HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR			
Incompatibility (Mat. to avoid): Bases, metals, glasses, carbides, acetylides, phosphides, silicides.			Conditions to Avoid: Contact with strong bases can cause violent reaction generating large amounts of heat.			
Hazardous Decomposition Products: Hydrogen fluoride gas, oxides of phosphorus, nitrogen & carbon, unidentified organics.						
SECTION 5 - HEALTH HAZARD DATA						
PRIMARY ROUTES OF ENTRY: <input type="checkbox"/> INHALATION <input type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS						
ACUTE EFFECTS: Corrosive to eyes, skin, mucous membranes.						
Inhalation: May cause severe irritation to upper respiratory tract. Not likely to be a problem under normal conditions of handling and use.						
Eye Contact: May cause burns.			Skin Contact: May cause severe irritation & fluoride burns, which may not be immediately evident.			
Ingestion: May cause systemic toxic effects as well as tissue damage to GI tract.						
CHRONIC EFFECTS: Gastric, intestinal, circulatory, respiratory, nervous complaints, skin rashes.						
Medical Conditions Generally Aggravated by Exposure: Asthma and conditions affecting above systems and others.						
EMERGENCY FIRST AID PROCEDURES						
Eye Contact: Flush (including under lids) with water for 30 minutes. Get medical attention.						
Skin Contact: Wash with cold water for at least 15 minutes. Use alkaline soap. Contacted areas should be soaked in an iced 0.2% solution of Hyamine 1622, or iced 70% alcohol. Seek Immediate medical attention.						
Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.						
Ingestion: DO NOT INDUCE VOMITING. Drink large quantity of water. Get immediate medical attention.						
SECTION 6 - CONTROL AND PROTECTIVE MEASURES						
Respiratory Protection (specify type): Not generally needed under normal conditions of handling and use.						
Protective Gloves: Neoprene or PVC.			Eye Protection: Chemical goggles.			
Ventilation Requirements: Special ventilation is not generally needed under normal conditions of handling & use.						
Other Protective Clothing & Equipment: Eyewash stations & safety showers.						
Hygienic Work Practices: Avoid contact with skin and avoid breathing vapors.						
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE						
Steps To Be Taken If Material Is Spilled Or Released: Contain spill. Do not contaminate sewers, ground or surface waters. Neutralize with soda ash or lime. Soak up in inert absorbent. Place in sealed, leak-proof, properly labeled containers.						
Waste Disposal Methods: Dispose of in accordance with all local, state and federal regulations.						
Precautions To Be Taken In Handling & Storage: Store in original container. Keep container sealed when not in use. Shelf life one year. Protect from extreme heat or cold.						
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Read and follow label directions.						

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only

THIS MSDS IS CURRENT AS OF JANUARY 10, 2000. The DATE PREPARED section is the original date assembled and remains current until a change is necessary.