

**SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION****Company Address:**8125 Cobb Center Drive  
Kennesaw, GA 30152Product Information: 800-TECH-401  
Customer Service: 800-645-5244Emergency: (Chemtrec) 800-424-9300  
Revision Date: April 15, 2010**Product Identification****FLUX-OFF® AQUEOUS (Liquid)****Product Code: ES132, ES832L****SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS#	Wt. % Range
Deionized water	7732-18-5	50.0-75.0
Dipropylene glycol methyl ether	34590-94-8	10.0-20.0
Propylene glycol butyl ether	5131-66-8/15821-83-7	5.0-10.0
Sodium xylene sulfonate	1300-72-7	5.0-10.0
Sodium metasilicate	6834-92-0	1.0-5.0
Benzyl alcohol	100-51-6	0.5-2.0

**SECTION 3: HAZARDS IDENTIFICATION**

**Emergency Overview:** Clear, colorless liquid with mild solvent odor. Liquid will irritate eyes and skin under repeated or prolonged exposure. Breathing high concentrations of product vapor may produce central nervous system depression. This product is not flammable.

**Potential Health Effects:**

**Eyes:** DO NOT get in eyes. This product is irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation.

**Skin:** Contact may cause skin irritation.

**Ingestion:** DO NOT take internally. Harmful if swallowed. Irritating to mouth, throat and stomach. May cause vomiting.

**Inhalation:** Excessive inhalation of vapors can cause nasal and respiratory irritation and central nervous system effects including dizziness, weakness, fatigue, nausea, headache and unconsciousness.

**Pre-Existing Medical Conditions Aggravated by Exposure:** Lung, skin, eye and central nervous system.

**SECTION 4: FIRST AID MEASURES**

**Eyes:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel if irritation develops or persists.

**Skin:** Wash skin with soap and water immediately. Remove contaminated clothing. Get medical attention if irritation develops or persists. Wash clothing separately before reuse.

**Ingestion:** Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get immediate medical attention.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**SECTION 5: FIRE FIGHTING MEASURES**

**Flash Point:** >200°F (>100C)

**LEL/UEL:** Not established (% by volume in air)

**Extinguishing Media:** Use water fog, carbon dioxide, or dry chemical when fighting fires involving this material.

**Fire Fighting Instructions:** As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Large Spills:** Shut off leak if possible and safe to do so. Wear self-contained breathing apparatus and appropriate personal protective equipment. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container for proper disposal. Do not flush to sewer. Avoid runoff into storm sewers and ditches which lead to waterways.

**Small Spills:** Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container for proper disposal.

**SECTION 7: HANDLING AND STORAGE**

Avoid prolonged or repeated contact with eyes, skin, and clothing. Wash hands thoroughly after handling or contact. Use with adequate ventilation. Avoid breathing product vapor or mist. Do not reuse this container. Store in a cool dry place away from heat, sparks and flame. Keep container closed when not in use. Do not store in direct sunlight.

**KEEP OUT OF REACH OF CHILDREN.****SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION****Exposure Guidelines:**

CHEMICAL NAME	ACGIH TLV	OSHA PEL	ACGIH STEL
Dipropylene glycol methyl ether	100 ppm	100 ppm	150 ppm
Propylene glycol butyl ether	NA	NA	NA
Benzyl alcohol	NA	NA	NA

**Work/Hygienic Practices:** Good general ventilation should be sufficient to control airborne levels. If vapor concentration exceeds TLV, use NIOSH approved organic vapor cartridge respirator. Wear safety glasses with side shields (or goggles) and rubber or other chemically resistant gloves when handling this material.

**NFPA and HMIS Codes:**

	NFPA	HMIS
Health	1	1
Flammability	0	0
Reactivity	0	0
Personal Protection	-	B

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**Physical State: Clear, pale yellow liquidOdor: Mild solventpH: 12 - 14Vapor Pressure: 14 mm Hg @ 25CVapor Density: Not availableBoiling Point: 212 F (100C)Solubility in Water: CompletelySpecific Gravity: (Water =1) 1.03Evaporation Rate: <1 (Butyl acetate=1)Melting Point: NAPercent Volatile: 93%**SECTION 10: STABILITY AND REACTIVITY**Stability - This product is stable. Conditions to Avoid: Do not spray near open flames, red hot surfaces or other sources of ignition.Incompatibility: Do not mix with aluminum, galvanized iron and zinc, powdered alkali and alkaline earth metals or strong oxidizing agents.Products of Decomposition: Thermal decomposition may release carbon monoxide, carbon dioxide and incompletely burned hydrocarbons.Hazardous Polymerization: Will not occurConditions to Avoid: NA**SECTION 11: TOXICOLOGICAL INFORMATION**Ingestion:

Sodium metasilicate LD50/rats 1153 mg/kg

Dipropylene glycol methyl ether LD50/rat 5135 mg/kg

Propylene glycol butyl ether LD50/rat 3300 mg/kg

Skin:

Dipropylene glycol methyl ether LD50/rats 9,500 mg/kg

Sodium metasilicate Human 250 mg/24H SEV

Propylene glycol butyl ether LD50/Rabbit 3100 mg/kg

Cancer Information: No ingredients listed as human carcinogens by NTP or IARCReproductive effects: none Teratogenic effects: noneInhalation: Not considered a hazard.Eye:

Dipropylene glycol methyl ether human 8 mg MLD

Mutagenic effects: none**SECTION 12: ECOLOGICAL INFORMATION****Environmental Impact Information**

Avoid runoff into storm sewers and ditches which lead to waterways. Water runoff can cause environmental damage.

**REPORTING**

US regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response Center is:1-800-424-8802

**SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all federal, state and local regulations. Water runoff can cause environmental damage.

**SECTION 14: TRANSPORTATION INFORMATION**

Proper  
Shipping Name  
Air and Ground: Cleaning Compound  
Not Regulated

**SECTION 15: REGULATORY INFORMATION****SECTION 313 SUPPLIER NOTIFICATION**

This product contains no toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

This information should be included on all MSDSs copied and distributed for this material.

**TOXIC SUBSTANCES CONTROL ACT (TSCA)**

All ingredients of this product are listed on the TSCA Inventory.

WHMIS: Class D2B

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

**SECTION 16: OTHER INFORMATION** **Note: This MSDS is applicable to date codes of 1215 and later.**

Normal ventilation for standard manufacturing practices is usually adequate. Local exhaust should be used when large amounts are released.

To the best of our knowledge, the information contained herein is accurate. However, all materials may present unknown hazards and should be used with caution. In particular, improper use of our products and their inappropriate combination with other products and substances may produce harmful results which cannot be anticipated. Final determination of the suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist.