

MATERIAL SAFETY DATA SHEET

Total Solutions
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GENERAL INFORMATION NUMBER: (414) 354-6417
CHEMTREC: (800) 424-9300

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I - Product Identification

Foaming Coil Cleaner

PRODUCT CODE: 8021

CHEMICAL FORMULATION: Pressurized Coil Cleaner.

HMIS HAZARD IDENTIFICATION SYSTEM: HEALTH: 1

FLAMMABILITY: 2

REACTIVITY: 0

HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - Hazardous Ingredients

Values reported as TWA unless noted.

SUBSTANCE	APPROX	OSHA	ACGIH	EPA 40 CFR:			CAS #
	%	PEL	TLV	302	355	372	
2-Butoxyethanol	1.0-3.0	50 ppm	20 ppm	N	N	N	111-76-2
Diethylene glycol monoethylether	1.0-3.0	N/E	N/E	N	N	N	111-90-0
n-Butane	3.0-5.0	800 ppm	800 ppm	N	N	N	106-97-8
Propane	1.0-3.0	N/E	1000 ppm	N	N	N	74-98-6

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).
355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).
372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - Physical Data

BOILING POINT (°F): N/D

SPECIFIC GRAVITY (WATER = 1): 0.97

VAPOR PRESSURE (psig): 65-75 @ 70° F

VOC CONTENT (% by weight): N/D

VAPOR DENSITY (AIR = 1): N/D

EVAPORATION RATE (WATER = 1): N/D

SOLUBILITY IN WATER: Partially

pH: 11.72-12.7

APPEARANCE AND ODOR: Clear, colorless aerosol; characteristic fragrance.

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): >156° F (propellant)

(TEST METHOD): Closed cup

FLAME EXTENSION: N/D

FLAMMABLE LIMITS IN AIR (VOLUME %)

UPPER: 9.5

LOWER: 1.9

NFPA 30B Rating: 1

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: Exposure to temperature above 120°F may cause bursting.

V - Reactivity Data

STABILITY: Stable**INCOMPATIBILITY:** Strong oxidizers.**CONDITIONS TO AVOID:** Excess heat and open flame.**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce oxides of carbon.**HAZARDOUS POLYMERIZATION:** Will not occur.

VI - Health Hazard Data

ROUTES OF ENTRY INHALATION: X EYE CONTACT: X SKIN CONTACT: X INGESTION:
INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS: None**EFFECTS OF OVEREXPOSURE****IF IN EYES:** May cause moderate irritation.**IF ON SKIN:** This product may be harmful if it is absorbed through the skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).**IF SWALLOWED:** Exposure by ingestion of an aerosol is unlikely. Components of the product may be absorbed into the body by ingestion.**IF INHALED:** Intentional misuse by concentrating and inhaling the product can be harmful or fatal.**EMERGENCY AND FIRST AID PROCEDURES****IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.**IF ON SKIN:** Wash with soap and water. Remove contaminated clothing and launder separately before reuse. If irritation persists, obtain medical attention.**IF SWALLOWED:** Contact physician or poison control center immediately. Do not induce vomiting. Never give anything to an unconscious person.**IF INHALED:** Remove person to fresh air.

VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area and remove all sources of ignition. Contain spill. Soak up spilled material with inert absorbent material and place in a properly marked closed container for proper disposal.**WASTE DISPOSAL METHOD:** Consult local environmental authorities. Dispose of cans in non-incinerated trash only.

VIII - Special Protection Information

RESPIRATORY PROTECTION: Use with adequate ventilation. If recommended Exposure Limits are exceeded wear a NIOSH approved respirator, following manufacturer's recommendations.**VENTILATION****LOCAL:** Recommended**MECHANICAL:** Not required**PROTECTIVE GLOVES:** Chemical resistant.**EYE PROTECTION:** Safety glasses.**OTHER PROTECTIVE EQUIPMENT:** None.**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place away from heat or open flame. Do not expose to direct sunlight or store at temperatures above 120°F.**OTHER PRECAUTIONS:** Keep out of reach of children. Do not puncture or incinerate container.

IX - Transportation Information (ground transportation only)

DOT ID NUMBER: None**DOT PROPER SHIPPING NAME:** Consumer Commodity**DOT CLASS:** ORM-D**DOT PACKING GROUP:** None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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