

Restlife

00-25
355

3M General Offices
3M Center
St. Paul, Minnesota 55144-1000
612/733-1110
Duns No.: 00-617-3082

**MATERIAL SAFETY
DATA SHEET**



DIVISION: BUILDING SERVICE & CLEANING PRODUCTS
TRADE NAME:
3M Brand Trouble Shooter Cleaner
3M I.D. NUMBER: 61-5000-0313-4 61-5000-6131-4

ISSUED: SEPTEMBER 2, 1991
SUPERSEDES: APRIL 2, 1991
DOCUMENT: 10-2818-2

1. INGREDIENT	C.A.S. NO.	PERCENT
WATER	7732-18-5	70.0 - 75.0
2-BUTOXYETHANOL	111-76-2	14.0
ISOBUTANE	75-28-5	8.0
ETHANOLAMINE	141-43-5	4.0
PROPANE	74-98-6	1.0
ETHOXYLATED SECONDARY ALCOHOLS	68131-40-8	< 1.0

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:
2-BUTOXYETHANOL

2. PHYSICAL DATA

BOILING POINT:..... 212.00 F
VAPOR PRESSURE:..... N/D
VAPOR DENSITY:..... N/D
EVAPORATION RATE:..... N/D
SOLUBILITY IN WATER:..... complete
SP. GRAVITY:..... 0.999 Water = 1
PERCENT VOLATILE:..... ca. 98.00 %
VOLATILE ORGANICS:..... ca. 275 gms/liter
VOC LESS H2O & EXEMPT SOLVENT N/D
pH:..... 11.80
VISCOSITY:..... N/D
MELTING POINT:..... N/D
APPEARANCE AND ODOR: foamy, viscous liquid, white, bland odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... 196.00 F T.C.C.
Above for liquid; propellant < 0 F
FLAMMABLE LIMITS - LEL:..... N/D
FLAMMABLE LIMITS - UEL:..... N/D
AUTOIGNITION TEMPERATURE:... N/D
EXTINGUISHING MEDIA:
Carbon dioxide, foam, dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES:
Treat as a pressurized container.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Combustible. Treat as a pressurized container.
NFPA-HAZARD-CODES: HEALTH 1 FIRE 1 REACTIVITY 1
UNUSUAL REACTION HAZARD: none

Abbreviations: N/D - Not Determined N/A - Not Applicable

3M General Offices
3M Center
St. Paul, Minnesota 55144-1000
612/733-1110
Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET



MSDS: 3M Brand Trouble Shooter Cleaner
SEPTEMBER 2, 1991

PAGE: 2 of 4

4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
Do not store above 120 F (49 C)
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
CO, carbon dioxide and smoke particles.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

If any cans rupture, extinguish all ignition sources, and ventilate the area. Observe precautions from other sections. Use absorbent material as needed in clean-up procedure. Place cans in a Department of Transportation approved container, and seal. Wash down area with water.

RECOMMENDED DISPOSAL:

Do not puncture or burn cans in a household incinerator. Incinerate in a permitted hazardous waste facility that can handle aerosol cans safely. Empty container may be sanitary landfilled. Can contents may be bled into a wastewater treatment system. Since regulations vary, consult applicable regulations or authorities before disposal.

ENVIRONMENTAL DATA:

N/D

REGULATORY INFORMATION:

U.S. EPA Hazardous Waste No.: None.

SARA HAZARD CLASS:

FIRE HAZARD: No **PRESSURE:** Yes **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with plenty of water. Continue for 10 minutes holding eyelids open. Call a physician.

SKIN CONTACT:

Wash affected area with soap and water.

INHALATION:

If symptoms occur, remove person to fresh air. If symptoms continue, call a physician.

IF SWALLOWED:

Do not induce vomiting. Immediately call a physician.

3M General Offices
3M Center
St. Paul, Minnesota 55144-1000
612/733-1110
Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET



MSDS: 3M Brand Trouble Shooter Cleaner
SEPTEMBER 2, 1991

PAGE: 3 of 4

7. PRECAUTIONARY INFORMATION

OTHER PRECAUTIONARY INFORMATION:

Keep away from heat, sparks and flame. Avoid direct eye contact. Avoid prolonged and repeated breathing of vapors or spray. Use only in areas with sufficient ventilation to maintain vapor concentrations below the recommended exposure limits. Avoid prolonged and repeated skin contact. As appropriate, use eye and skin protection. Contents under pressure. Do not puncture, incinerate or store above 120 F (49 C). Keep out of reach of children.

INGREDIENTS	EXPOSURE LIMITS		TYPE	AUTH	SKIN*
	VALUE	UNIT			
WATER	NONE	NONE	NONE	NONE	
2-BUTOXYETHANOL	25	ppm	TWA	ACGIH	Y
2-BUTOXYETHANOL	121	mg/m ³	TWA	ACGIH	Y
2-BUTOXYETHANOL	25	ppm	TWA	OSHA	Y
2-BUTOXYETHANOL	120	mg/m ³	TWA	OSHA	Y
ISOBUTANE	NONE	NONE	NONE	NONE	
ETHANOLAMINE	3	ppm	TWA	ACGIH	Y
ETHANOLAMINE	7.5	mg/m ³	TWA	ACGIH	Y
ETHANOLAMINE	6	ppm	STEL	ACGIH	Y
ETHANOLAMINE	15	mg/m ³	STEL	ACGIH	Y
ETHANOLAMINE	3	ppm	TWA	OSHA	Y
ETHANOLAMINE	8	mg/m ³	TWA	OSHA	Y
ETHANOLAMINE	6	ppm	STEL	OSHA	Y
ETHANOLAMINE	15	mg/m ³	STEL	OSHA	Y
PROPANE	1000	ppm	TWA	OSHA	Y
PROPANE	1800	mg/m ³	TWA	OSHA	Y
PROPANE	NONE	NONE	NONE	ACGIH	Y
			Simple asphyxiant		
ETHOXYLATED SECONDARY ALCOHOLS	NONE	NONE	NONE	NONE	

* SKIN NOTATION: Listed substances indicated with "Y" under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

May cause eye irritation. Symptoms may include transient conjunctival irritation and minimal corneal opacity.

SKIN CONTACT:

May cause irritation. 2-Butoxyethanol may be absorbed

3M General Offices

3M Center
St. Paul, Minnesota 55144-1000
612/733-1110
Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET



MSDS: 3M Brand Trouble Shooter Cleaner
SEPTEMBER 2, 1991

PAGE: 4 of 4

8. HEALTH HAZARD DATA

(continued)

through the skin and may cause blood changes based on animal studies.

INHALATION:

High concentrations of vapors may cause respiratory system irritation and temporary nervous system impairment. Symptoms may include coughing, headache, nausea, vomiting, dizziness, and discomfort to the nose, throat, and chest.

IF SWALLOWED:

May cause digestive system irritation and liver and kidney injury. Symptoms may include headache, abdominal pain, nausea, vomiting, and weakness. 2-Butoxyethanol may cause blood changes based on animal studies.

Abbreviations: N/D - Not Determined N/A - Not Applicable

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this material under normal conditions. Any use of the material which is not in conformance with this Data Sheet or which involves using the material in combination with any other material or any other process is the responsibility of the user.