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MATERIAL SAFETY

DATA SHEET

3M Center

St. Paul, Minnesota

55144-1000

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DIVISION: COMMERCIAL CARE DIVISION

TRADE NAME:

3M Brand LIQUID TROUBLE SHOOTER CLEANER

ID NUMBER/U.P.C.:

ISSUED: November 14, 2000 SUPERSEDES: January 21, 1998

DOCUMENT: 06-4647-1

1. INGREDIENT	C.A.S. NO. PERCENT
WATER	7732-18-5 60 - 90
BENZYL ALCOHOL	100-51-6 5 - 10
CAPRYLIC ACID	124-07-2 1 - 5
CAPRIC ACID	334-48-5 53320-86-8 1 - 5

IN CASE OF EMERGENCY: THE NUMBERS AT THE TOP OF THIS PAGE PROVIDE 24 HOUR RESPONSE FROM ANY PHONE FOR ALL EMERGENCIES WITH THIS PRODUCT.

2. PHYSICAL DATA

BOILING POINT:..... ca. 200 F VAPOR PRESSURE:...........N/D EVAPORATION RATE:..... N/D SOLUBILITY IN WATER:..... complete SPECIFIC GRAVITY:........ ca. 1 Water=1 PERCENT VOLATILE:..... ca. 90 %

MELTING POINT:........... N/A

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2. PHYSICAL DATA (continued)		
APPEARANCE AND ODOR: Liquid, hazy green color; citrus odor		
3. FIRE AND EXPLOSION HAZARD DATA		
FLASH POINT:		
EXTINGUISHING MEDIA: Water spray, Carbon dioxide, Dry chemical, Foam		
SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker contained, and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.	>àt	
UNUSUAL FIRE AND EXPLOSION HAZARDS: No unusual fire or explosion hazards are anticipated.		
NFPA HAZARD CODES: HEALTH: 2 FIRE: 1 REACTIVITY: 0 UNUSUAL REACTION HAZARD: none		
OSHA FIRE HAZARD CLASS: Not applicable		
4. REACTIVITY DATA		
STABILITY: Stable		
INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID: Not applicable.		
HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.		
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide and Carbon Dioxide, Oxides of Nitrogen, Amine Compounds, Irritant Vapors or Gases.		
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5. ENVIRONMENTAL INFORMATION

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SPILL RESPONSE:

Observe precautions from other sections. Ventilate area. Contain spill. Cover with absorbent material. Collect spilled material. Clean up residue with water. Place in a closed container.

RECOMMENDED DISPOSAL:

Discharge spent solutions and small quantities (less than 5 gal. (19 L)) to a wastewater treatment system. Reduce discharge rate if foaming occurs. Disposal alternative: Incinerate in an industrial or commercial facility in the presence of a combustible material.

ENVIRONMENTAL DATA:

Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: ca. 10 %. VOC Less H2O & Exempt Solvents: ca. 10 %.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

TSCA: All components used in the manufacture of this material are in compliance with the US TSCA inventory.

OTHER ENVIRONMENTAL INFORMATION:

Not determined.

EPCRA HAZARD CLASS:

FIRE HAZARD: NO PRESSURE: NO REACTIVITY: NO ACUTE: Yes CHRONIC: Yes

6. SUGGESTED FIRST AID

Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT:

Flush skin with large amounts of water. If irritation persists, get medical attention.

INHALATION:

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

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6. SUGGESTED FIRST AID (continued)

IF SWALLOWED:

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. Wear unvented goggles during operations in which exposure is likely.

SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material (s) are recommended: neoprene, nitrile rubber.

RECOMMENDED VENTILATION:

Use in a well-ventilated area.

RESPIRATORY PROTECTION:

Avoid breathing of vapors, mists or spray.

PREVENTION OF ACCIDENTAL INGESTION:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

RECOMMENDED STORAGE:

Keep container closed when not in use. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Keep container tightly closed.

OTHER PRECAUTIONARY INFORMATION:

When used in a trigger-spray application, a coarse spray pattern is recommended to reduce user exposure to mist and vapor.

HMIS HAZARD RATINGS: HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0

PERSONAL PROTECTION: X (See precautions, section 7.)

EXPOSURE LIMITS

INGREDIENT	VALUE UNIT TYPE AUTH SKIN*
WATER BENZYL ALCOHOL	NONE NONE NONE 10 PPM TWA AIHA
ETHANOLAMINE.	3 PPM TWA ACGIH 6 PPM STEL ACGIH

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EXPOSURE LIMITS	(continued)		
INGREDIENT	VALUE UNIT	TYPE AUTH SKIN*	
ETHANOLAMINE	3 PPM	TWA OSHA	3
ETHANOLAMINE	6 PPM	STEL OSHA	
ETHANOLAMINE	6 MG/M3	TWA OSHA	
CAPRYLIC ACID	NONE NONE	NONE NONE	
CAPRIC ACID	NONE NONE	NONE NONE	
MODIFIED CLAY	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 - AIHA: American Industrial Hygiene Assoc. Workplace Environmental Exposure Level Guideline
- Occupational Safety and Health Administration - OSHA:
- NONE: None Established

8. HEALTH HAZARD DATA

Severe Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, cloudy appearance of the cornea, impaired vision and possible permanently impaired vision.

SKIN CONTACT:

Moderate Skin Irritation: signs/symptoms can include redness, swelling, itching, and dryness.

May be absorbed through the skin and produce effects similiar to those caused by inhalation and/or ingestion.

INHALATION:

Single overexposure, above recommended guidelines, may cause:

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

IF SWALLOWED:

Ingestion is not a likely route of exposure to this product.

Ingestion may cause:

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

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8. HEALTH HAZARD DATA (continued)

> Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

Aspiration Pneumonitis: signs/symptoms can include coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

SECTION CHANGE DATES

INGREDIENTS SECTION CHANGED SINCE January 21, 1998 PRECAUTIONARY INFO. SECTION CHANGED SINCE January 21, 1998

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

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