

3M General Offices
 3M Center
 St. Paul, Minnesota 55144-1000
 (612) 733-1110

00-07
 791

Duns No.: 00-617-3082

MATERIAL SAFETY
 DATA SHEET



DIVISION: ADHESIVES, COATINGS AND SEALERS
 TRADE NAME:
 3M Brand Rust Fighter-E PART NO. 08893
 3M I.D. NUMBER: 62-4972-4930-0

ISSUED: MAY 12, 1988
 SUPERSEDES: APRIL 27, 1988
 DOCUMENT: 11-0026-2

| 1. INGREDIENT | C.A.S. NO. | PERCENT | EXPOSURE | | LIMITS | |
|------------------------------|------------|-------------|----------|-------------------|--------|-------|
| | | | VALUE | UNIT | TYPE | AUTH |
| petroleum distillate | 64742-89-8 | 30.0 - 40.0 | 50 | ppm | TWA | CMRG |
| calcium sulfonate | N/D | 10.0 - 20.0 | NONE | NONE | NONE | NONE |
| contains 50% mineral spirits | 8030-30-6 | 10.0 - 20.0 | 400 | ppm | TWA | ACGIH |
| propane (propellant) | 74-98-6 | 10.0 - 20.0 | 1000 | ppm | TWA | OSHA |
| styrene/butadiene rubber | N/D | 1.0 - 10.0 | NONE | NONE | NONE | NONE |
| polyterpene resin | N/D | 1.0 - 10.0 | NONE | NONE | NONE | NONE |
| carbon black | 1333-86-4 | 1.0 - 5.0 | 3.5 | mg/m ³ | TWA | ACGIH |
| asphalt | 8052-42-4 | 1.0 - 5.0 | 5 | mg/m ³ | TWA | ACGIH |

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- CMRG: Chemical Manufacture Recommended Guidelines
- NONE: None Established

2. PHYSICAL DATA

BOILING POINT:..... Compressed gas
 VAPOR PRESSURE:..... Compressed gas
 VAPOR DENSITY:..... >3.0
 EVAPORATION RATE:..... 2.5
 SOLUBILITY IN WATER:..... Very slight
 SP. GRAVITY:..... N/A
 PERCENT VOLATILE:..... 65%
 VOLATILE ORGANICS:..... 502 grams/liter
 pH:..... N/D
 VISCOSITY:..... 2,000-5,000 cps
 APPEARANCE AND ODOR: Black liquid - solvent odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... -50F (Closed Cup/Propellant)
 FLAMMABLE LIMITS - LEL: 1.0
 FLAMMABLE LIMITS - UEL: Flammable Gas
 AUTOIGNITION TEMPERATURE: ... N/D
 EXTINGUISHING MEDIA:
 CO₂, foam, dry chemical
 SPECIAL FIRE FIGHTING PROCEDURES:
 Fire fighters should be equipped with self-contained breathing apparatus when fighting fires involving this material.
 UNUSUAL FIRE AND EXPLOSION HAZARDS:
 Extremely Flammable. Treat as a pressurized product. Overheated, closed containers adjacent to fire could explode due to internal pressure buildup.

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

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4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
N/A. **CONDITIONS TO AVOID:** Do not puncture or incinerate container.
Do not store product at temperatures above 120F.
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
CO, CO₂, SO₂ and smoke particles when subjected to excessive heat or flame.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

If cans rupture, observe precautions from other sections. Extinguish all ignition sources and ventilate area. Use inorganic absorbent to absorb spill; place absorbed product and partially full cans in a U.S. Dept. of Transportation approved metal container and seal.

RECOMMENDED DISPOSAL:

Incinerate absorbed product and partially full cans in a hazardous waste facility. U.S. EPA HAZARDOUS WASTE NUMBER: D001 (IGNITABLE). Dispose of empty cans in a sanitary landfill or incinerate in a commercial facility capable of handling aerosol cans. Consult applicable regulations or authorities before disposal.

ENVIRONMENTAL DATA:

Volatile Organic Compound (VOC): Maximum VOC = 502 grams/liter.
Maximum VOC minus Water minus Exempt Solvents = 502 grams/liter.

6. SUGGESTED FIRST AID

EYE CONTACT:

Flush eyes with large amounts of water for at least 10 minutes. Call a physician.

SKIN CONTACT:

Wash affected area thoroughly with soap and water.

INHALATION:

Provide fresh air. If breathing has stopped, give artificial resuscitation. Call a physician.

IF SWALLOWED:

Do not induce vomiting. Call a physician or poison control center.

OTHER FIRST AID:

NONE

7. PRECAUTIONARY INFORMATION

FOR INDUSTRIAL OR PROFESSIONAL USE ONLY. Keep product and its vapors away from all sources of ignition. The vapors released by this product can easily be ignited and burn explosively. Provide

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7. PRECAUTIONARY INFORMATION (continued)

ventilation sufficient to maintain vapor concentrations below recommended exposure limits. Avoid breathing vapor and mist. For large volume usage, local exhaust should be used. Avoid contact with eyes and skin. Wear chemical goggles or safety glasses and impervious gloves when spraying product. Do not take internally. Use only as directed. Intentional misuse by deliberately concentrating and inhaling or swallowing the contents can be harmful or fatal. Do not puncture or incinerate can. Do not store at temperatures above 120F. KEEP OUT OF THE REACH OF CHILDREN.

ADDITIONAL EXPOSURE LIMITS

| INGREDIENTS | EXPOSURE LIMITS | | LIMITS | |
|------------------------------|-----------------|-------|--------|-------|
| | VALUE | UNIT | TYPE | AUTH |
| contains 50% mineral spirits | 300 | ppm | TWA | CMRG |
| contains 50% mineral spirits | 1600 | mg/m3 | TWA | ACGIH |
| propane (propellant) | 1800 | mg/m3 | TWA | OSHA |
| carbon black | 3.5 | mg/m3 | TWA | OSHA |

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
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- CMRG: Chemical Manufacture Recommended Guidelines

8. HEALTH HAZARD DATA

EYE CONTACT: May cause severe eye irritation.

SKIN CONTACT: May cause skin irritation. n-Hexane may be absorbed in harmful amounts through the skin.

INHALATION: Vapor overexposure may cause respiratory system irritation and temporary nervous system impairment (light-headedness). The petroleum distillate may contain n-hexane and toluene. Repeated or extreme overexposure to n-hexane vapors and/or toluene vapors may cause nervous system damage. Symptoms of overexposure may include headache, dizziness, weakness, fatigue and, on extreme overexposure, unconsciousness.

INGESTION: Intentional concentration and swallowing the liquid product may cause severe digestive system irritation, nausea and vomiting. Solvent aspiration into the lungs as a result of vomiting may cause lung damage which may be fatal. Due to the physical state of the product (aerosol), no health hazard is expected under conditions of product intended use.

SECTION CHANGE DATES

| | | | |
|-------------------|-----------------------|----------------|-------|
| HEADING | SECTION CHANGED SINCE | APRIL 27, 1988 | ISSUE |
| INGREDIENTS | SECTION CHANGED SINCE | APRIL 27, 1988 | ISSUE |
| HEALTH HAZD. DATA | SECTION CHANGED SINCE | APRIL 27, 1988 | ISSUE |

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