

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

00-14
23

MATERIAL SAFETY
DATA SHEET



DIVISION: AUTOMOTIVE TRADES

TRADE NAME:

3M 6 Way (Part No. 08902)

3M I.D. NUMBER: XS-0414-0234-7 62-4608-4919-3 62-4900-9909-0

ISSUED: APRIL 12, 1990

SUPERSEDES: DECEMBER 15, 1989

DOCUMENT: 10-3318-2

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE VALUE UNIT	LIMITS TYPE AUTH
vm and p naphtha	8032-32-4	30.0 - 40.0	300 ppm	TWA ACGIH
petroleum based rust preventative - Vendor Trade Secret (V.T.S.)	V.T.S.	10.0 - 20.0	NONE NONE	NONE NONE
kerosene	8008-20-6	10.0 - 20.0	500 ppm	TWA OSHA
propane	74-98-6	10.0 - 20.0	1000 ppm	TWA OSHA
isobutane	75-28-5	10.0 - 20.0	NONE NONE	NONE NONE
petroleum distillate	64742-65-0	1.0 - 10.0	NONE NONE	NONE NONE
2-butoxyethanol	111-76-2	0.1 - 1.0	25 ppm	TWA ACGIH

SOURCE OF EXPOSURE LIMIT DATA:

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

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:..... Compressed gas
VAPOR PRESSURE:..... Compressed gas
VAPOR DENSITY: > 3.00 Air = 1
EVAPORATION RATE:..... > 1.00 Ether = 1
SOLUBILITY IN WATER: Nil
SP. GRAVITY:..... 0.720 Water = 1
PERCENT VOLATILE: 86.00 %
VOLATILE ORGANICS: 619.00 gm/l
pH: N/A
VISCOSITY: N/A
APPEARANCE AND ODOR: Clear straw, liquid

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... -50.00 F
FLAMMABLE LIMITS - LEL: N/A
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 flammable pressurized container.
Overheated, closed container adjacent to fire could explode due to

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

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3. FIRE AND EXPLOSION HAZARD DATA (continued)

pressure buildup.
NFPA-HAZARD-CODES: HEALTH 2 FIRE 4 REACTIVITY 0
UNUSUAL REACTION HAZARD: None

4. REACTIVITY DATA

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

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

If cans rupture: Extinguish all ignition sources. Ventilate the area. Observe the precautions from other sections. Contain the spill. Cover with absorbent materials as needed. Collect spilled material. Place in a U.S. Department of Transportation - approved metal container, and seal.

RECOMMENDED DISPOSAL:

Incinerate absorbed and partially full cans after mixing with flammable material in a licensed hazardous waste facility. The facility must be capable of handling aerosol cans. Do not puncture or burn cans in a household incinerator. Dispose of empty cans in a sanitary landfill. Disposal should be in accordance with applicable regulations. U.S. EPA Hazardous Waste No.: D001 (Ignitable).

ENVIRONMENTAL DATA:

Volatile Organic Compound (VOC):
Maximum VOC = 619 grams/liter.
Maximum VOC minus Water minus Exempt Solvents = 619 grams/liter.
VOC's were calculated according to Rule 443.1 of the South Coast Air Quality Management District (SCAQMD).

SARA HAZARD CLASS:

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

6. SUGGESTED FIRST AID

EYE CONTACT:

In case of eye contact, immediately flush eyes with large amounts of water for at least 10 minutes. Call a physician.

SKIN CONTACT:

Wash with soap and water.

INHALATION:

If inhaled, remove to uncontaminated air. Call a physician.

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6. SUGGESTED FIRST AID (continued)

IF SWALLOWED:

If swallowed, do not induce vomiting. Call a physician or poison control center immediately.

OTHER FIRST AID:

NONE

7. PRECAUTIONARY INFORMATION

Keep product and its vapors away from heat, sparks, flames, and other sources of ignition. Extinguish and do not ignite any flame in the immediate work area. The vapors released by the product can be ignited easily and burn explosively. Use only in areas with sufficient ventilations to maintain vapor and spray concentrations below recommended exposure limits. Avoid prolonged breathing of vapor and spray (airborne adhesive particles). Prevent eye and skin contact. Keep out of reach of children. Use protective equipment where possible, i.e. safety glasses and gloves. Local exhaust ventilation may be needed if large quantities are sprayed in a short period of time. Use only as directed. Do not take internally. Intentional misuse by deliberately concentrating and inhaling or swallowing product may be fatal. Do not store at temperatures above 120F. Do not puncture or burn in a household incinerator.

ADDITIONAL EXPOSURE LIMITS

INGREDIENTS	---- EXPOSURE LIMITS ----			
	VALUE	UNIT	TYPE	AUTH
vm and p naphtha	100	ppm	TWA	CMRG
vm and p naphtha	570	mg/m3	TWA	CMRG
vm and p naphtha	1350	mg/m3	TWA	ACGIH
vm and p naphtha	300	ppm	TWA	OSHA
vm and p naphtha	1350	mg/m3	TWA	OSHA
kerosene	2000	mg/m3	TWA	OSHA
propane	1800	mg/m3	TWA	OSHA
2-butoxyethanol	120	mg/m3	TWA	ACGIH
2-butoxyethanol	25	ppm	TWA	OSHA
2-butoxyethanol	120	mg/m3	TWA	OSHA

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- CMRG: Chemical Manufacture Recommended Guidelines

8. HEALTH HAZARD DATA

EYE CONTACT: Spray particulate and vapor may cause eye irritation.

SKIN CONTACT: Prolonged and repeated skin contact may defat skin leading to irritation and dermatitis.

INHALATION: Overexposures to vapor/spray concentrations exceeding

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8. HEALTH HAZARD DATA (continued)

recommended exposure limits may cause respiratory system irritation and temporary nervous system impairment (light-headedness). 2-butoxyethanol vapors may cause blood changes based on animal studies. Symptoms of overexposure may include headache, dizziness, weakness, fatigue, and on extreme, unconsciousness.

INGESTION: Accidental ingestion from an aerosol container is unlikely. Intentional concentration and swallowing the liquid product may cause severe digestive system irritation, nausea and vomiting. Chronic ingestion of kerosene may cause liver damage. Solvent aspiration into the lungs as a result of vomiting may cause lung damage, which can be fatal.

SECTION CHANGE DATES

HEADING	SECTION CHANGED SINCE	DECEMBER 15, 1989	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 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.