

MATERIAL SAFETY 3M
DATA SHEET 3M Center
St. Paul, Minnesota
55144-1000
1-800-364-3577 or (651) 737-6501 (24 hours)

Copyright, 2000, Minnesota Mining and Manufacturing Company.
All rights reserved. Copying and/or downloading of this
information for the purpose of properly utilizing 3M products
is allowed provided that:

- 1) the information is copied in full with no changes unless
prior agreement is obtained from 3M, and
- 2) neither the copy nor the original is resold or otherwise
distributed with the intention of earning a profit thereon.

DIVISION: ELECTRICAL PRODUCTS DIVISION

TRADE NAME:

3M Brand Wire Pulling Lubricant

ID NUMBER/U.P.C.:

| | | | |
|----------------|------------------|----------------|------------------|
| 80-6107-3662-3 | 00-54007-50622-5 | 80-6107-3663-1 | 00-54007-50623-2 |
| 80-6107-3664-9 | 00-54007-50624-9 | 80-6107-3665-6 | 00-54007-50625-6 |
| 80-6107-3931-2 | 00-54007-41313-4 | 80-6108-3578-9 | 00-54007-41925-9 |

ISSUED: June 09, 2000

SUPERSEDES: March 03, 1997

DOCUMENT: 06-5049-9

| 1. INGREDIENT | C.A.S. NO. | PERCENT |
|-----------------------------|------------|---------|
| WATER..... | 7732-18-5 | 95 - 99 |
| GLYCOLS, POLYPROPYLENE..... | 25322-69-4 | 1 - 3 |
| POLYETHYLENE GLYCOL..... | 25322-68-3 | 1 - 3 |

NOTE: ALL INGREDIENTS LISTED ON TSCA,AICS, CDSL, EINICS, AND KTCCL
INVENTORIES.

2. PHYSICAL DATA

BOILING POINT:..... 100 C
VAPOR PRESSURE:..... 18 mm
AT 72 F
VAPOR DENSITY:..... .9 - 1.1 Air=1
EVAPORATION RATE:..... N/D
SOLUBILITY IN WATER:..... complete
SPECIFIC GRAVITY:..... 1.01 Water=1
PERCENT VOLATILE:..... 97 %
pH:..... 6.5 - 8.5
VISCOSITY:..... 110000 - 115000 centipoise
MELTING POINT:..... N/D

APPEARANCE AND ODOR:

Gel, OPAQUE;WHITE;NO ODOR

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

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... N/A
FLAMMABLE LIMITS - LEL:..... N/A
FLAMMABLE LIMITS - UEL:..... N/A
AUTOIGNITION TEMPERATURE:..... N/A

EXTINGUISHING MEDIA:

Non-combustible. Choose material suitable for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES:

None known.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None known.

NFPA HAZARD CODES: HEALTH: 0 FIRE: 0 REACTIVITY: 0
UNUSUAL REACTION HAZARD: none

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:

None known.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Cover with absorbent material. Collect spilled material. Clean up residue with water. Place in a closed container.

OXIDIZING AGENTS SUCH AS HOUSEHOLD BLEACH CAN BE USED TO ELIMINATE SLIPPERY CHARACTER.

RECOMMENDED DISPOSAL:

Discharge spent solutions to a wastewater treatment system. Dispose of completely absorbed waste product in a sanitary landfill. Dispose of empty cans in a sanitary landfill.

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

5. ENVIRONMENTAL INFORMATION (continued)

ENVIRONMENTAL DATA:
Not determined.

REGULATORY INFORMATION:
Volatile Organic Compounds: N/D.
VOC Less H2O & Exempt Solvents: N/D.

Since regulations vary, consult applicable regulations or authorities
before disposal.

EPCRA HAZARD CLASS:
FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: No CHRONIC: No

6. SUGGESTED FIRST AID

EYE CONTACT:
Immediately flush eyes with large amounts of water. Get immediate
medical attention.

SKIN CONTACT:
No need for first aid is anticipated.

INHALATION:
No need for first aid is anticipated.

IF SWALLOWED:
Drink two glasses of water. Call a physician.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:
Avoid eye contact. The following should be worn alone or in
combination, as appropriate, to prevent eye contact: Wear safety
glasses with side shields.

SKIN PROTECTION:
Avoid prolonged or repeated skin contact.

RECOMMENDED VENTILATION:
Use in a well-ventilated area.

RESPIRATORY PROTECTION:
Not applicable.

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

7. PRECAUTIONARY INFORMATION (continued)

PREVENTION OF ACCIDENTAL INGESTION:

Wash hands after handling and before eating.

RECOMMENDED STORAGE:

Not applicable. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Not applicable.

EXPOSURE LIMITS

| INGREDIENT | VALUE | UNIT | TYPE | AUTH | SKIN* |
|-----------------------------|-------|----------------|------|------|-------|
| WATER..... | NONE | NONE | NONE | NONE | |
| GLYCOLS, POLYPROPYLENE..... | 10 | MG/M3 | TWA | AIHA | |
| | | AS PARTICULATE | | | |
| POLYETHYLENE GLYCOL..... | 10 | MG/M3 | TWA | AIHA | |
| | | AS PARTICULATE | | | |

* 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:

- AIHA: American Industrial Hygiene Assoc. Workplace Environmental Exposure Level Guideline
- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

Single exposure may cause:

Mild Eye Irritation: signs/symptoms can include redness, swelling, pain, and tearing.

SKIN CONTACT:

No adverse health effects are expected from skin contact.

INHALATION:

No adverse health effects are expected from inhalation exposure.

Health effects from inhalation are not expected unless product is heated.

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

8. HEALTH HAZARD DATA (continued)

IF SWALLOWED:

No adverse health effects are expected from swallowing.

SECTION CHANGE DATES

PRECAUTIONARY INFO. SECTION CHANGED SINCE March 03, 1997 ISSUE

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

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the MSDS available directly from 3M.