

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

09-88
 11514

Duns No.: 00-617-3082

MATERIAL SAFETY
 DATA SHEET



DIVISION: ADHESIVES, COATINGS AND SEALERS

TRADE NAME:

3M Release Agent PART NO. 08971

3M I.D. NUMBER: 62-4492-4919-2

ISSUED: APRIL 12, 1989

SUPERSEDES: OCTOBER 10, 1988

DOCUMENT: 11-0918-0

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE		LIMITS	
			VALUE	UNIT	TYPE	AUTH
isopropyl alcohol	67-63-0	40.0 - 50.0	400	ppm	TWA	ACGIH
petroleum distillate	64742-88-7	30.0 - 40.0	100	ppm	TWA	CMRG
petroleum distillate	64742-94-5	10.0 - 20.0	100	ppm	TWA	CMRG
propane	74-98-5	10.0 - 20.0	NONE	NONE	NONE	NONE

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- CMRG: Chemical Manufacture Recommended Guidelines
- NONE: None Established

2. PHYSICAL DATA

BOILING POINT:..... Compressed gas
 VAPOR PRESSURE:..... Compressed gas
 VAPOR DENSITY: < 3.00 Air = 1
 EVAPORATION RATE:..... Slower
 SOLUBILITY IN WATER: Nil
 SP. GRAVITY:..... 0.800 Water = 1
 PERCENT VOLATILE: 100.00 %
 VOLATILE ORGANICS: 760.00 gm/l
 pH: N/D
 VISCOSITY: N/A -- Aerosol
 APPEARANCE AND ODOR: Clear yellow-amber, liquid, solvent odor

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 containers adjacent to fire could explode due to internal 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

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

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

09-88
11515

Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET



MSDS: 3M Release Agent PART NO. 08971
APRIL 12, 1989

PAGE: 2 of 4

4. REACTIVITY DATA (continued)

CONDITIONS TO AVOID: Do not store at temperatures above 120F. Do not puncture or incinerate container.
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, 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. Department 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 = 760 grams/liter.
Maximum VOC minus Water minus Exempt Solvents = 760 grams/liter.

SARA HAZARD CLASS:

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

6. SUGGESTED FIRST AID

EYE CONTACT:

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

SKIN CONTACT:

Wash thoroughly the affected area with soap and water.

INHALATION:

Provide fresh air. Call a physician.

IF SWALLOWED:

Do not induce vomiting. Immediately call a physician or poison control center.

OTHER FIRST AID:

NONE

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

Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET



MSDS: 3M Release Agent PART NO. 08971
APRIL 12, 1989

PAGE: 3 of 4

7. PRECAUTIONARY INFORMATION

FOR INDUSTRIAL OR PROFESSIONAL USE ONLY. Keep product and its vapors away from heat, sparks, flame and all other sources of ignition. The vapors released by this product can easily be ignited and burn explosively. Use only in areas with sufficient ventilation to maintain vapor and spray concentrations below recommended exposure limits. Avoid breathing vapors or mist. Do not take internally. Avoid eye contact and prolonged or repeated skin contact; wear chemical safety goggles and impervious gloves when handling this product. 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. Do not store at temperatures above 120F or below 32F. Exposure to direct sunlight or heat may cause can to burst. KEEP OUT OF THE REACH OF CHILDREN.

ADDITIONAL EXPOSURE LIMITS

INGREDIENTS	---- EXPOSURE		LIMITS ----	
	VALUE	UNIT	TYPE	AUTH
isopropyl alcohol	980	mg/m3	TWA	ACGIH
isopropyl alcohol	500	ppm	STEL	ACGIH
isopropyl alcohol	1225	mg/m3	STEL	ACGIH
isopropyl alcohol	400	ppm	TWA	OSHA
isopropyl alcohol	980	mg/m3	TWA	OSHA
isopropyl alcohol	500	ppm	STEL	OSHA
isopropyl alcohol	1225	mg/m3	STEL	OSHA
petroleum distillate	563	mg/m3	TWA	CMRG

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: Liquid irritating to eyes upon direct contact. Vapor and mist may cause eye irritation.

SKIN CONTACT: Liquid may cause skin irritation. Symptoms may include dryness and cracking.

INHALATION: Overexposures to vapor concentrations exceeding recommended exposure limits may cause respiratory irritation and temporary nervous system impairment (light-headedness). Symptoms of overexposure may include dizziness, weakness, fatigue, headache, nausea and in the extreme, unconsciousness or death. Repeated or extreme overexposure may cause nervous system damage, as well as kidney and liver changes.

INGESTION: Accidental ingestion from an aerosol container is unlikely. Intentional concentration and swallowing of the liquid may cause digestive system irritation. Symptoms may include nausea, vomiting, abdominal pain, malaise, dizziness and loss of coordination. Solvent aspiration into the lungs as a result of

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

09-88
11517

Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET



MSDS: 3M Release Agent PART NO. 08971
APRIL 12, 1989

PAGE: 4 of 4

8. HEALTH HAZARD DATA (continued)

vomiting may cause lung damage, which can be fatal.

SECTION CHANGE DATES

INGREDIENTS SECTION CHANGED SINCE OCTOBER 10, 1988 ISSUE

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 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.