

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

02-51
 1934

MATERIAL SAFETY
 DATA SHEET



DIVISION: AUTOMOTIVE TRADES DIVISION
 TRADE NAME:
 3M WINDO-WELD Resealant (Flow Grade) P/N 08633
 3M I.D. NUMBER: 62-5527-5509-2

ISSUED: NOVEMBER 27, 1990
 SUPERSEDES: APRIL 12, 1990
 DOCUMENT: 10-5351-1

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE		LIMITS	
			VALUE	UNIT	TYPE	AUTH
isobutylene-isoprene polymer	9010-85-9	15.0 - 25.0	NONE	NONE	NONE	NONE
petroleum distillate	64742-89-8	10.0 - 20.0	NONE	NONE	NONE	NONE
polybutylene	9003-29-6	10.0 - 20.0	NONE	NONE	NONE	NONE
asphalt	8052-42-4	5.0 - 15.0	5	mg/m ³	TWA	ACGIH
toluene	108-88-3	5.0 - 10.0	100	ppm	TWA	ACGIH
heptane	142-82-5	5.0 - 10.0	400	ppm	TWA	ACGIH
methylcyclohexane	108-87-2	5.0 - 10.0	400	ppm	TWA	ACGIH
carbon black	1333-86-4	5.0 - 10.0	3.5	mg/m ³	TWA	ACGIH
vm&p naphtha	8032-32-4	1.0 - 5.0	300	ppm	TWA	ACGIH
calcium carbonate	471-34-1	1.0 - 5.0	10	mg/m ³	TWA	ACGIH
silica gel	63231-67-4	1.0 - 5.0	5	mg/m ³	TWA	CMRG
cyclohexane	110-82-7	< 2.0	300	ppm	TWA	ACGIH

SOURCE OF EXPOSURE LIMIT DATA:

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

asphalt
 toluene
 cyclohexane

2. PHYSICAL DATA

BOILING POINT:..... 200.00 F
 VAPOR PRESSURE:..... 80.0000 mmHg
 @ 100F
 VAPOR DENSITY: 2.50 Air = 1
 EVAPORATION RATE:..... 4.50 Ether = 1
 SOLUBILITY IN WATER: Slight
 SP. GRAVITY:..... 0.870 Water = 1
 PERCENT VOLATILE: 45.00 %
 VOLATILE ORGANICS: 394.00 gm/l
 pH: N/D
 VISCOSITY: ca. 30000.0 CPS
 APPEARANCE AND ODOR: Black, thin syrup, characteristic solvent odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... 16.00 F
 (Petroleum Distillate)
 FLAMMABLE LIMITS - LEL: 1.00 %
 FLAMMABLE LIMITS - UEL: 7.00 %
 AUTOIGNITION TEMPERATURE: ... N/D

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

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

02-51
1935

MATERIAL SAFETY
DATA SHEET



MSDS: 3M WINDO-WELD Resealant (Flow Grade) P/N 08633
NOVEMBER 27, 1990

PAGE: 2 of 4

3. FIRE AND EXPLOSION HAZARD DATA (continued)

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. Overheated, closed containers adjacent to fire could explode due to pressure buildup.

NFPA-HAZARD-CODES: HEALTH 2 FIRE 3 REACTIVITY 0

UNUSUAL REACTION HAZARD: None

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS TO AVOID:

N/A

HAZARDOUS POLYMERIZATION: Will Not Occur

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide and smoke particles when subjected to excessive heat or flame.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

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

RECOMMENDED DISPOSAL:

Incinerate absorbed and bulk product after mixing with flammable material in a licensed hazardous waste facility. Disposal should be in accordance with applicable regulations. U.S. EPA Hazardous Waste Number: D001 (Ignitable).

ENVIRONMENTAL DATA:

Volatile Organic Compound (VOC):

Maximum VOC = 394 grams/liter.

Maximum VOC minus Water minus Exempt Solvents = 394 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: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with plenty of water for at least 10 minutes and call a physician.

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

MATERIAL SAFETY
DATA SHEET



MSDS: 3M WINDO-WELD Resealant (Flow Grade) P/N 08633
NOVEMBER 27, 1990

PAGE: 3 of 4

6. SUGGESTED FIRST AID (continued)

SKIN CONTACT:

Wash with soap and water.

INHALATION:

Immediately provide fresh air. If not breathing, give artificial respiration. Call a physician.

IF SWALLOWED:

DO NOT INDUCE VOMITING. Give victim two glasses of milk or water to drink and call a physician immediately. If spontaneous vomiting should occur, lower the victim's head between the knees to prevent aspiration into the lungs. Do not give liquids to an unconscious person.

OTHER FIRST AID:

NONE

7. PRECAUTIONARY INFORMATION

Keep away from heat, sparks, flames, and other sources of ignition. The vapors released from the product can ignited easily. Avoid prolonged breathing of vapors. Use only in areas with sufficient ventilation to maintain vapor concentrations below recommended exposure limits. Provide local exhaust ventilation if necessary. Keep container closed when not in use. Avoid eye and skin contact. Use eye (e.g., safety glasses, chemical goggles) and skin (e.g., impervious gloves) protection to prevent contact. Keep out of reach of children.

ADDITIONAL EXPOSURE LIMITS

INGREDIENTS	EXPOSURE LIMITS		AUTH	
	VALUE	UNIT	TYPE	AUTH
toluene	377	mg/m3	TWA	ACGIH
toluene	150	ppm	STEL	ACGIH
toluene	565	mg/m3	STEL	ACGIH
toluene	100	ppm	TWA	OSHA
toluene	375	mg/m3	TWA	OSHA
toluene	150	ppm	STEL	OSHA
toluene	560	mg/m3	STEL	OSHA
heptane	1640	mg/m3	TWA	ACGIH
heptane	500	ppm	STEL	ACGIH
heptane	2050	mg/m3	STEL	ACGIH
heptane	400	ppm	TWA	OSHA
heptane	1600	mg/m3	TWA	OSHA
heptane	500	ppm	STEL	OSHA
heptane	2000	mg/m3	STEL	OSHA
methylcyclohexane	1610	mg/m3	TWA	ACGIH
methylcyclohexane	400	ppm	TWA	OSHA
methylcyclohexane	1600	mg/m3	TWA	OSHA
carbon black	3.5	mg/m3	TWA	OSHA
vm&p naphtha	100	ppm	TWA	CMRG
vm&p naphtha	570	mg/m3	TWA	CMRG

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

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

02-51
1937

MATERIAL SAFETY
DATA SHEET



MSDS: 3M WINDO-WELD Resealant (Flow Grade) P/N 08633
NOVEMBER 27, 1990

PAGE: 4 of 4

7. PRECAUTIONARY INFORMATION (continued)

ADDITIONAL EXPOSURE LIMITS

INGREDIENTS	EXPOSURE LIMITS		AUTH	
	VALUE	UNIT	TYPE	
vm&p naphtha	1370	mg/m ³	TWA	ACGIH
vm&p naphtha	300	ppm	TWA	OSHA
vm&p naphtha	1350	mg/m ³	TWA	OSHA
cyclohexane	1030	mg/m ³	TWA	ACGIH
cyclohexane	300	ppm	TWA	OSHA
cyclohexane	1050	mg/m ³	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: May cause eye irritation.

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

INHALATION: Overexposure to petroleum distillate may cause upper respiratory system irritation and temporary nervous system impairment. Symptoms of overexposure may include headache and dizziness. Repeated or extreme overexposure to toluene vapors may cause nervous system damage.

INGESTION: May cause digestive system irritation with nausea, vomiting, diarrhea and temporary nervous system impairment. Solvent aspiration into the lungs as a result of vomiting may cause lung damage or death.

SECTION CHANGE DATES

INGREDIENTS SECTION CHANGED SINCE APRIL 12, 1990 ISSUE

FIRE & EXP. DATA SECTION CHANGED SINCE APRIL 12, 1990 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 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.