

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

02-77
2559

MATERIAL SAFETY
DATA SHEET



DIVISION: AUTOMOTIVE TRADES DIVISION

TRADE NAME:

3M Brand Weld-Thru Coating / Aerosol P/N 5913
3M I.D. NUMBER: 60-9800-0992-6

ISSUED: FEBRUARY 19, 1991

SUPERSEDES: APRIL 27, 1989

DOCUMENT: 10-2863-8

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE		LIMITS	
			VALUE	UNIT	TYPE	AUTH
METHYL ETHYL KETONE	78-93-3	25.0 - 35.0	200	ppm	TWA	ACGIH
TOLUENE	108-88-3	15.0 - 25.0	100	ppm	TWA	ACGIH
ZINC	7440-66-6	5.0 - 15.0	NONE	NONE	NONE	NONE
PROPYLENE GLYCOL METHYL ETHER ACETATE	108-65-6	5.0 - 15.0	100	ppm	TWA	CMRG
BROWN PIGMENT	1317-35-7	1.0 - 10.0	1	mg/m ³	TWA	ACGIH
PHENOXY RESIN	25068-38-6	1.0 - 10.0	NONE	NONE	NONE	NONE
MICA	12001-26-2	1.0 - 5.0	3	mg/m ³	TWA	ACGIH
ISOBUTANE/	75-28-5	1.0 - 10.0	NONE	NONE	NONE	NONE
PROPANE PROPELLANT	74-98-6	1.0 - 10.0	1000	ppm	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
- 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:

METHYL ETHYL KETONE
TOLUENE
ZINC
PROPYLENE GLYCOL METHYL ETHER
ACETATE
BROWN PIGMENT

2. PHYSICAL DATA

BOILING POINT:..... AEROSOL
VAPOR PRESSURE:..... COMPRESSED GAS
VAPOR DENSITY:..... > 1.00 Air = 1
EVAPORATION RATE:..... 2.70 Ether = 1
SOLUBILITY IN WATER:..... INSOLUBLE
SP. GRAVITY:..... 0.920 Water = 1
PERCENT VOLATILE:..... APPROX. 75%
VOLATILE ORGANICS:..... 692.12 gm/l
pH:..... N/A
VISCOSITY:..... 27 CPS
APPEARANCE AND ODOR: GREY-BROWN WITH GREY METALLIC MIRROR, KETONE-LIKE ODOR.

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... <20 F CLOSED CUP
FLAMMABLE LIMITS - LEL: 1.20 %
FLAMMABLE LIMITS - UEL: 11.50 %
AUTOIGNITION TEMPERATURE: ... N/D

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

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3. FIRE AND EXPLOSION HAZARD DATA (continued)

EXTINGUISHING MEDIA:
CO2, FOAM, WATER FOG
SPECIAL FIRE FIGHTING PROCEDURES:
CONTENTS UNDER PRESSURE. FLAMMABLE AEROSOL.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
CONTENTS UNDER PRESSURE. FLAMMABLE AEROSOL.
NFPA-HAZARD-CODES: HEALTH 2 FIRE 4 REACTIVITY 0
UNUSUAL REACTION HAZARD: None

4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
NONE
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
CO, CO2, ZINC, SMOKE PARTICULATES

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
IF CANS RUPTURE EXTINGUISH ALL IGNITION SOURCES. VENTILATE. OBSERVE PRECAUTIONS FROM OTHER SECTIONS. CONTAIN SPILL. COVER WITH INORGANIC ABSORBENT MATERIAL. COLLECT SPILLED MATERIAL. PLACE IN A U.S. DOT APPROVED METAL CONTAINER AND SEAL.

RECOMMENDED DISPOSAL:
INCINERATE ABSORBED AND PARTIALLY FULL CANS AFTER MIXING WITH FLAMMABLE MATERIAL IN A PERMITTED HAZARDOUS WASTE FACILITY. 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 HAZARD WASTE NUMBER: D001 (IGNITABLE).

ENVIRONMENTAL DATA:
Volatile Organic Compound (VOC): 692.12 grams/liter. VOC minus Water minus Exempt Solvents: 692.12 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:
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST TEN MINUTES. IF IRRITATION PERSISTS, CALL A PHYSICIAN.

SKIN CONTACT:
WASH WITH SOAP AND WATER.

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6. SUGGESTED FIRST AID (continued)

INHALATION:
REMOVE INDIVIDUAL TO FRESH AIR. CALL A PHYSICIAN.

IF SWALLOWED:
DO NOT INDUCE VOMITING. CALL A PHYSICIAN.

OTHER FIRST AID:
NONE

7. PRECAUTIONARY INFORMATION

KEEP AWAY FROM HEAT, SPARKS AND FLAME. DO NOT STORE ABOVE 120 F.
CONTENTS UNDER PRESSURE. DO NOT PUNCTURE OR INCINERATE AEROSOL
CONTAINER. USE ONLY IN AREAS WITH SUFFICIENT VENTILATION TO MAINTAIN
VAPOR CONCENTRATIONS BELOW RECOMMENDED EXPOSURE LIMITS. AVOID EYE
CONTACT AND PROLONGED SKIN CONTACT. AVOID PROLONGED BREATHING OF
VAPOR. KEEP OUT OF THE REACH OF CHILDREN.

ADDITIONAL EXPOSURE LIMITS

INGREDIENTS	---- EXPOSURE LIMITS ----			
	VALUE	UNIT	TYPE	AUTH
METHYL ETHYL KETONE	590	mg/m3	TWA	ACGIH
METHYL ETHYL KETONE	300	ppm	STEL	ACGIH
METHYL ETHYL KETONE	885	mg/m3	STEL	ACGIH
METHYL ETHYL KETONE	200	ppm	TWA	OSHA
METHYL ETHYL KETONE	590	mg/m3	TWA	OSHA
METHYL ETHYL KETONE	300	ppm	STEL	OSHA
METHYL ETHYL KETONE	885	mg/m3	STEL	OSHA
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
BROWN PIGMENT	1	mg/m3	TWA	OSHA
MICA	3	mg/m3	TWA	OSHA
PROPANE PROPELLANT	1800	mg/m3	TWA	OSHA

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration

8. HEALTH HAZARD DATA

EYE CONTACT: LIQUID IRRITATING TO THE EYES UPON CONTACT. VAPORS MAY
ALSO CAUSE IRRITATION.

SKIN CONTACT: PROLONGED SKIN CONTACT MAY DEFAT SKIN LEADING TO
IRRITATION.

INHALATION: VAPORS IRRITATING TO THE RESPIRATORY SYSTEM. MAY CAUSE

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8. HEALTH HAZARD DATA (continued)

TEMPORARY NERVOUS SYSTEM IMPAIRMENT. PROLONGED OVEREXPOSURE MAY CAUSE NERVOUS SYSTEM DAMAGE. SYMPTOMS OF OVEREXPOSURE MAY INCLUDE DIZZINESS, GIDDINESS, DECREASED REACTION TIME AND FATIGUE.

INGESTION: MAY CAUSE DIGESTIVE SYSTEM IRRITATION. SYMPTOMS FOLLOWING INGESTION MAY INCLUDE NAUSEA AND VOMITING.

NOTE: THIS PRODUCT CONTAINS TRACE QUANTITIES OF LEAD. LEAD CAUSES PERIPHERAL NERVE DAMAGE, KIDNEY, LIVER AND BLOOD DAMAGE, ENCEPHALOPATHY, ABNORMAL SPERM MORPHOLOGY AND FETAL EFFECTS. THE TRACE QUANTITY OF LEAD IN THIS PRODUCT IS NOT EXPECTED TO CAUSE THESE EFFECTS.

SECTION CHANGE DATES

PHYSICAL DATA	SECTION CHANGED SINCE APRIL 27, 1989 ISSUE
ENVIRON. DATA	SECTION CHANGED SINCE APRIL 27, 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.