

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

03-11  
 2607

MATERIAL SAFETY  
 DATA SHEET



DIVISION: AUTOMOTIVE TRADES DIVISION  
 TRADE NAME:  
 3M Brand Super Red Putty P/N 5972  
 3M I.D. NUMBER: 60-9800-0820-9

ISSUED: JULY 25, 1990  
 SUPERSEDES: JULY 2, 1990  
 DOCUMENT: 10-2852-1

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE VALUE UNIT	LIMITS TYPE AUTH
BARIUM SULFATE	7727-43-7	30.0 - 40.0	10 mg/m3	TWA ACGI
TALC	14807-96-6	20.0 - 30.0	2 mg/m3	TWA ACGI
N-BUTYL ACETATE	123-86-4	10.0 - 15.0	150 ppm	TWA ACGI
NITROCELLULOSE	9004-70-0	1.0 - 10.0	NONE NONE	NONE NONE
VEGETABLE OIL	68152-81-8	1.0 - 10.0	NONE NONE	NONE NONE
XYLENE	1330-20-7	1.0 - 4.0	100 ppm	TWA ACGI
IRON OXIDE (Fe2O3)	1309-37-1	1.0 - 4.0	5 mg/m3	TWA ACGI
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.0 - 4.0	5 mg/m3	TWA ACGI
ISOPROPYL ALCOHOL	67-63-0	1.0 - 4.0	400 ppm	TWA ACGI
TOLUENE	108-88-3	1.0 - 4.0	100 ppm	TWA ACGI
N-BUTYL ALCOHOL	71-36-3	1.0 - 4.0	50 ppm	CEIL ACGI
ETHYL ALCOHOL	64-17-5	< 1.0	1000 ppm	TWA ACGI
METHYL ALCOHOL	67-56-1	< 0.5	200 ppm	TWA ACGI
METHYL ISOBUTYL KETONE	108-10-1	< 0.5	50 ppm	TWA ACGI

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- 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:

- BARIUM SULFATE
- XYLENE
- BIS(2-ETHYLHEXYL)PHTHALATE
- TOLUENE
- N-BUTYL ALCOHOL
- METHYL ALCOHOL
- METHYL ISOBUTYL KETONE

2. PHYSICAL DATA

BOILING POINT:..... 257 F  
 VAPOR PRESSURE:..... N/D  
 VAPOR DENSITY:..... 4.00 Air = 1  
 EVAPORATION RATE:..... 7.80 Ether = 1  
 SOLUBILITY IN WATER:..... SLIGHT  
 SP. GRAVITY:..... 1.680-1.730 Water = 1  
 PERCENT VOLATILE:..... 20-26  
 VOLATILE ORGANICS:..... 417.21 gm/l  
   G VOC/(L-VW-VES) 417.21  
 pH:..... N/D  
 VISCOSITY:..... 80K-125K CPS  
 APPEARANCE AND ODOR: SMOOTH RED PASTE WITH SWEET ESTER ODOR

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

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PAGE: 2 of 5

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### 3. FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT:..... 65 F SETAFLASH  
FLAMMABLE LIMITS - LEL: ..... 1.0%  
FLAMMABLE LIMITS - UEL: ..... 7.6%  
AUTOIGNITION TEMPERATURE: ... N/D  
EXTINGUISHING MEDIA:  
FOAM, DRY CHEMICAL, CARBON DIOXIDE  
SPECIAL FIRE FIGHTING PROCEDURES:  
FIGHT AS VOLATILE LIQUID FIRE  
UNUSUAL FIRE AND EXPLOSION HAZARDS:  
KEEP AWAY FROM HEAT, SPARKS AND FLAME  
NFPA-HAZARD-CODES: HEALTH 2 FIRE 3 REACTIVITY 0  
UNUSUAL REACTION HAZARD: None

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### 4. REACTIVITY DATA

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STABILITY: Stable  
INCOMPATIBILITY - MATERIALS TO AVOID:  
NONE  
HAZARDOUS POLYMERIZATION: Will Not Occur  
HAZARDOUS DECOMPOSITION PRODUCTS:  
CARBON MONOXIDE, CARBON DIOXIDE AND ACRYLIC MONOMER FUMES

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### 5. ENVIRONMENTAL INFORMATION

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SPILL RESPONSE:  
OBSERVE PRECAUTIONS FROM OTHER SECTIONS. EXTINGUISH ALL IGNITION  
SOURCES. VENTILATE AREA. COLLECT SPILLED MATERIAL, PLACE IN U.S DOT  
APPROVED METAL CONTAINER AND SEAL.

RECOMMENDED DISPOSAL:  
INCINERATE WASTE/BULK PRODUCT IN A HAZARDOUS WASTE FACILITY. CONSULT  
APPLICABLE REGULATIONS OR AUTHORITIES BEFORE DISPOSAL. U.S. EPA  
HAZARD WASTE NUMBER: D001 (IGNITABLE).

ENVIRONMENTAL DATA:  
N/D

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

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### 6. SUGGESTED FIRST AID

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EYE CONTACT:  
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST TEN MINUTES.  
CALL A PHYSICIAN.

SKIN CONTACT:  
WASH WITH SOAP AND WATER.

INHALATION:  
PROVIDE FRESH AIR. CALL A PHYSICIAN.

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PAGE: 3 of 5

**6. SUGGESTED FIRST AID (continued)**

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

**OTHER FIRST AID:**  
 NONE

**7. PRECAUTIONARY INFORMATION**

KEEP AWAY FROM HEAT, SPARKS, AND FLAME. USE ONLY IN AREAS WITH SUFFICIENT VENTILATION TO MAINTAIN VAPOR CONCENTRATIONS BELOW RECOMMENDED EXPOSURE LIMITS. AVOID EYE CONTACT. AVOID PROLONGED BREATHING OF VAPORS AND PROLONGED OR REPEATED SKIN CONTACT. WASH HANDS THOROUGHLY AFTER USING. DO NOT INGEST. KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN.

GLOVES ARE RECOMMENDED WHEN REPEATED OR PROLONGED SKIN CONTACT IS EXPECTED. DUST MASKS SHOULD BE WORN WHEN POWER GRINDING ON DRIED PUTTY. USE GOOD PERSONAL HYGIENE TO PREVENT ACCIDENTAL OVEREXPOSURE.

**ADDITIONAL EXPOSURE LIMITS**

INGREDIENTS	EXPOSURE LIMITS		TYPE	AUTH
	VALUE	UNIT		
BARIUM SULFATE	10	mg/m3	TWA	OSHA
TALC	2	mg/m3	TWA	OSHA
N-BUTYL ACETATE	150	ppm	TWA	OSHA
N-BUTYL ACETATE	710	mg/m3	TWA	OSHA
N-BUTYL ACETATE	200	ppm	STEL	OSHA
N-BUTYL ACETATE	950	mg/m3	STEL	OSHA
N-BUTYL ACETATE	713	mg/m3	TWA	ACGIH
N-BUTYL ACETATE	200	ppm	STEL	ACGIH
N-BUTYL ACETATE	950	mg/m3	STEL	ACGIH
XYLENE	434	mg/m3	TWA	ACGIH
XYLENE	150	ppm	STEL	ACGIH
XYLENE	651	mg/m3	STEL	ACGIH
XYLENE	100	ppm	TWA	OSHA
XYLENE	435	mg/m3	TWA	OSHA
XYLENE	150	ppm	STEL	OSHA
XYLENE	655	mg/m3	STEL	OSHA
IRON OXIDE (Fe2O3)	10	mg/m3	TWA	OSHA
BIS(2-ETHYLHEXYL)PHTHALATE	10	mg/m3	STEL	ACGIH
BIS(2-ETHYLHEXYL)PHTHALATE	5	mg/m3	TWA	OSHA
BIS(2-ETHYLHEXYL)PHTHALATE	10	mg/m3	STEL	OSHA
ISOPROPYL ALCOHOL	985	mg/m3	TWA	ACGIH
ISOPROPYL ALCOHOL	500	ppm	STEL	ACGIH
ISOPROPYL ALCOHOL	1230	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
TOLUENE	377	mg/m3	TWA	ACGIH
TOLUENE	150	ppm	STEL	ACGIH
TOLUENE	565	mg/m3	STEL	ACGIH

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PAGE: 4 of 5

**7. PRECAUTIONARY INFORMATION (continued)**

**ADDITIONAL EXPOSURE LIMITS**

INGREDIENTS	EXPOSURE		LIMITS	
	VALUE	UNIT	TYPE	AUTH
TOLUENE	100	ppm	TWA	OSHA
TOLUENE	375	mg/m3	TWA	OSHA
TOLUENE	150	ppm	STEL	OSHA
TOLUENE	560	mg/m3	STEL	OSHA
N-BUTYL ALCOHOL	50	ppm	CEIL	OSHA
N-BUTYL ALCOHOL	150	mg/m3	CEIL	OSHA
N-BUTYL ALCOHOL	150	mg/m3	CEIL	ACGIH
N-BUTYL ALCOHOL	152	mg/m3	TWA	ACGIH
ETHYL ALCOHOL	1880	mg/m3	TWA	ACGIH
ETHYL ALCOHOL	1000	ppm	TWA	OSHA
ETHYL ALCOHOL	1900	mg/m3	TWA	OSHA
METHYL ALCOHOL	262	mg/m3	TWA	ACGIH
METHYL ALCOHOL	250	ppm	STEL	ACGIH
METHYL ALCOHOL	328	mg/m3	STEL	ACGIH
METHYL ALCOHOL	200	ppm	TWA	OSHA
METHYL ALCOHOL	260	mg/m3	TWA	OSHA
METHYL ALCOHOL	250	ppm	STEL	OSHA
METHYL ALCOHOL	310	mg/m3	STEL	OSHA
METHYL ISOBUTYL KETONE	205	mg/m3	TWA	ACGIH
METHYL ISOBUTYL KETONE	75	ppm	STEL	ACGIH
METHYL ISOBUTYL KETONE	308	mg/m3	STEL	ACGIH
METHYL ISOBUTYL KETONE	50	ppm	TWA	OSHA
METHYL ISOBUTYL KETONE	205	mg/m3	TWA	OSHA
METHYL ISOBUTYL KETONE	75	ppm	STEL	OSHA
METHYL ISOBUTYL KETONE	300	mg/m3	STEL	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 AND VAPOR MAY CAUSE IRRITATION. SYMPTOMS MAY INCLUDE REDNESS, TEARING, SWELLING, PAIN, BLURRED VISION, AND SENSITIVITY TO LIGHT.

SKIN CONTACT: MAY CAUSE IRRITATION. MAY BE ABSORBED THROUGH THE SKIN. SYMPTOMS MAY INCLUDE DRYNESS AND CRACKING.

INHALATION: MAY CAUSE RESPIRATORY SYSTEM IRRITATION, TEMPORARY NERVOUS SYSTEM IMPAIRMENT, LIVER, KIDNEY, HEART AND LUNG DAMAGE, HEARING AND BALANCE DISORDERS, AND BLOOD CHANGES. SYMPTOMS MAY INCLUDE HEADACHE, FATIGUE, LOSS OF COORDINATION, SLEEPINESS, STUPOR, DIZZINESS, GIDDINESS, DECREASED REACTION TIME, VOMITING AND DIARRHEA. REPEATED OVEREXPOSURE TO TOLUENE VAPORS MAY CAUSE NERVOUS SYSTEM DAMAGE.

INGESTION: ASPIRATION INTO THE LUNGS MAY CAUSE LUNG DAMAGE. MAY

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PAGE: 5 of 5

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**8. HEALTH HAZARD DATA** (continued)

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CAUSE DIGESTIVE SYSTEM IRRITATION. OVEREXPOSURE MAY CAUSE NERVOUS SYSTEM IMPAIRMENT, NAUSEA, VOMITING, HEADACHE, DIARRHEA, LOSS OF COORDINATION, AND COMA.

BARIUM COMPOUNDS MAY HAVE ADVERSE EFFECTS ON MUSCLE, INCLUDING THE HEART.

NOTE: BIS(2-ETHYLHEXYL) PHTHALATE HAS BEEN SHOWN TO CAUSE AN INCREASED INCIDENCE OF CANCER IN LABORATORY ANIMALS THAT RECEIVED THE SUBSTANCE BY ORAL ADMINISTRATION. THE STUDY WAS CONDUCTED BY THE NATIONAL TOXICOLOGY PROGRAM, NTP.

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**SECTION CHANGE DATES**

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PHYSICAL DATA      SECTION CHANGED SINCE JULY 2, 1990 ISSUE

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