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MSDS

**Common Name:** 26BR HIGH TEMPERATURE RED RTV SILICONE GASKET MAKER - 3 OZ, 8116**Manufacturer:** PERMATEX**MSDS Revision Date:** 6/30/2012**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2GXY9**Manufacturer Model Number(s):**

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PERMATEX (R\*)

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:**

PERMATEX(R\*) 26BR HIGH TEMPERATURE RED RTV SILICONE GASKET MAKER - 3 OZ

**PRODUCT CODE:** 81160**STOCK NO.:** 81160**MANUFACTURER NAME:** PERMATEX, INC.**ADDRESS:**10 COLUMBUS BLVD.  
HARTFORD, CT 06106  
USA**GENERAL PHONE NUMBER:** 1-87-PERMATEX, (877) 376-2839**EMERGENCY PHONE NUMBER:** 800-255-3924

## CHEMTREC:

FOR EMERGENCIES IN THE US, CALL CHEMTREC: 800-424-9300

MSDS CREATION DATE: DECEMBER 27, 2008

MSDS REVISION DATE: JUNE 30, 2012

MSDS FORMAT: ACCORDING TO ANSI Z400.1-2004

## HMIS:

HEALTH HAZARD 2

FIRE HAZARD 1

REACTIVITY

PERSONAL PROTECTION 1

\* CHRONIC HEALTH EFFECTS

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

CHEMICAL NAME	CAS#	INGREDIENT PERCENT
POLYDIMETHYL SILOXANE	63148-62-9	1 - 10 BY WEIGHT
DIMETHYL SILOXANE, HYDROXY-TERMINATED	70131-67-8	>60 BY WEIGHT
AMORPHOUS SILICA	7631-86-9	5 - 15 BY WEIGHT
DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE	64742-46-7	1 - 10 BY WEIGHT
METHYLTRIACTOXYASILANE	4253-34-3	1 - 10 BY WEIGHT
ETHYLTRIACTOXYASILANE	17689-77-9	1 - 10 BY WEIGHT
TITANIUM DIOXIDE	13463-67-7	1 - 10 BY WEIGHT
IRON OXIDE	1309-37-1	1 - 10 BY WEIGHT

## NOTE:

\*\*\*\*\*WHEN THIS PRODUCT IS EXPOSED TO MOISTURE, ACETIC ACID MAY BE FORMED.

**SECTION 3 - HAZARDS IDENTIFICATION**

## EMERGENCY OVERVIEW:

CAUTION!

IRRITANT.

ROUTE OF EXPOSURE: EYES. SKIN. INHALATION. INGESTION.

## POTENTIAL HEALTH EFFECTS:

EYE: MAY CAUSE EYE IRRITATION.

SKIN: MAY CAUSE SKIN IRRITATION.

INHALATION:

PROLONGED OR EXCESSIVE INHALATION MAY CAUSE RESPIRATORY TRACT IRRITATION.

**INGESTION:**

INGESTION CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA.

**SIGNS/SYMPTOMS:**

ACETIC ACID PRODUCED DURING CURING IRRITATES EYES, NOSE AND THROAT.

**AGGRAVATION OF PRE-EXISTING CONDITIONS:**

METHYLTRACETOXYSILANE: EYE, SKIN AND PULMONARY DISORDERS.

## SECTION 4 - FIRST AID MEASURES



**EYE CONTACT:**

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 TO 20 MINUTES. ENSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS WITH FINGERS. GET IMMEDIATE MEDICAL ATTENTION.

**SKIN CONTACT:**

IMMEDIATELY WASH SKIN WITH PLENTY OF SOAP AND WATER FOR 15 TO 20 MINUTES, WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.

GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

**INHALATION:**

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION OR GIVE OXYGEN BY TRAINED PERSONNEL. SEEK IMMEDIATE MEDICAL ATTENTION.

**INGESTION:**

IF SWALLOWED, DO NOT INDUCE VOMITING. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

## SECTION 5 - FIRE FIGHTING MEASURES



FLASH POINT: >200 DEG. F (>93.3 DEG. C)

FLASH POINT METHOD: TAG CLOSED CUP (TCC)

AUTO IGNITION TEMPERATURE: NOT DETERMINED.

LOWER FLAMMABLE/EXPLOSIVE LIMIT: NOT DETERMINED.

UPPER FLAMMABLE/EXPLOSIVE LIMIT: NOT DETERMINED.

**FIRE FIGHTING INSTRUCTIONS:**

EVACUATE AREA OF UNPROTECTED PERSONNEL. USE COLD WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS TO MINIMIZE RISK OF RUPTURE. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL PROTECTIVE GEAR. IF POSSIBLE, CONTAIN FIRE RUN-OFF WATER.

**EXTINGUISHING MEDIA:**

USE CARBON DIOXIDE (CO<sub>2</sub>) OR DRY CHEMICAL WHEN FIGHTING FIRES INVOLVING THIS MATERIAL.

**PROTECTIVE EQUIPMENT:**

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS (SCBA), MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR.

UNUSUAL FIRE HAZARDS: NONE.

NFPA RATINGS:  
NFPA HEALTH  
NFPA FLAMMABILITY  
NFPA REACTIVITY  
NFPA OTHER

## SECTION 6 - ACCIDENTAL RELEASE MEASURES



### PERSONNEL PRECAUTIONS:

EVACUATE AREA AND KEEP UNNECESSARY AND UNPROTECTED PERSONNEL FROM ENTERING THE SPILL AREA.

### ENVIRONMENTAL PRECAUTIONS:

AVOID RUNOFF INTO STORM SEWERS, DITCHES, AND WATERWAYS.

### SPILL CLEANUP MEASURES:

ABSORB SPILL WITH INERT MATERIAL (E,G., DRY SAND OR EARTH), THEN PLACE IN A CHEMICAL WASTE CONTAINER. PROVIDE VENTILATION. CLEAN UP SPILLS IMMEDIATELY OBSERVING PRECAUTIONS IN THE PROTECTIVE EQUIPMENT SECTION. AFTER REMOVAL, FLUSH SPILL AREA WITH SOAP AND WATER TO REMOVE TRACE RESIDUE.

AVOID PERSONAL CONTACT AND BREATHING VAPORS OR MISTS. VENTILATE AREA. USE PROPER PERSONAL PROTECTIVE EQUIPMENT AS LISTED IN SECTION 8.

### METHODS FOR CONTAINMENT:

WIPE OR SCRAPE UP SPILL MATERIAL. MAINTAIN GOOD VENTILATION FOR LARGE SPILLS. PLACE SCRAP MATERIAL IN A WELL-VENTILATED AREA AND ALLOW TO CURE TO RUBBER. CLEAN UP SPILLS THOROUGHLY AS RESIDUE IS SLIPPERY.

### METHODS FOR CLEANUP:

WIPE OR SCRAPE UP SPILL MATERIAL. MAINTAIN GOOD VENTILATION FOR LARGE SPILLS. PLACE SCRAP MATERIAL IN A WELL-VENTILATED AREA AND ALLOW TO CURE TO RUBBER. CLEAN UP SPILLS THOROUGHLY AS RESIDUE IS SLIPPERY.

### OTHER PRECAUTIONS:

PUMP OR SHOVEL TO STORAGE/SALVAGE VESSELS. ADD INHIBITOR TO PREVENT POLYMERIZATION.

## SECTION 7 - HANDLING AND STORAGE



### HANDLING:

USE WITH ADEQUATE VENTILATION. AVOID BREATHING VAPOR, AEROSOL OR MIST.

### STORAGE:

STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM SOURCES OF HEAT AND INCOMPATIBLE MATERIALS. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

### SPECIAL HANDLING PROCEDURES:

PROVIDE APPROPRIATE VENTILATION/RESPIRATORY PROTECTION AGAINST DECOMPOSITION PRODUCTS (SEE SECTION 10) DURING WELDING/FLAME CUTTING OPERATIONS AND TO PROTECT AGAINST DUST DURING SANDING/GRINDING OF CURED PRODUCT.

HYGIENE PRACTICES: WASH THOROUGHLY AFTER HANDLING.

## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE



## GUIDELINES

## ENGINEERING CONTROLS:

USE APPROPRIATE ENGINEERING CONTROL SUCH AS PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS. GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS. WHERE SUCH SYSTEMS ARE NOT EFFECTIVE WEAR SUITABLE PERSONAL PROTECTIVE EQUIPMENT, WHICH PERFORMS SATISFACTORILY AND MEETS OSHA OR OTHER RECOGNIZED STANDARDS. CONSULT WITH LOCAL PROCEDURES FOR SELECTION, TRAINING, INSPECTION AND MAINTENANCE OF THE PERSONAL PROTECTIVE EQUIPMENT.

## EYE/FACE PROTECTION:

WEAR APPROPRIATE PROTECTIVE GLASSES OR SPLASH GOGGLES AS DESCRIBED BY 29 CFR 1910.133, OSHA EYE AND FACE PROTECTION REGULATION, OR THE EUROPEAN STANDARD EN 166.

## SKIN PROTECTION DESCRIPTION:

WEAR APPROPRIATE PROTECTIVE GLOVES AND OTHER PROTECTIVE APPAREL TO PREVENT SKIN CONTACT. CONSULT MANUFACTURER'S DATA FOR PERMEABILITY DATA.

## RESPIRATORY PROTECTION:

A NIOSH APPROVED AIR-PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS. PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR ANY OTHER CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE PROTECTION.

## OTHER PROTECTIVE:

FACILITIES STORING OR UTILIZING THIS MATERIAL SHOULD BE EQUIPPED WITH AN EYEWASH AND A DELUGE SHOWER SAFETY STATION.

## EXPOSURE GUIDELINES:

DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE:

## GUIDELINE TYPE:

## GUIDELINE INFO:

ACGIH TLV: 5 MG/M3 TWA (OIL MIST)  
OSHA PEL: 5 MG/M3 PEL (OIL MIST)

## TITANIUM DIOXIDE:

GUIDELINE ACGIH: 10 MG/M3  
TLV-TWA: 10 MG/M3

## IRON OXIDE:

GUIDELINE ACGIH: 5 MG/M3  
TLV-TWA: 5 MG/M3 RESPIRABLE FRACTION (R)

GUIDELINE OSHA: 10 MG/M3  
PEL-TWA: 10 MG/M3

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE APPEARANCE: PASTE.

COLOR: RED

ODOR: ACETIC ACID

BOILING POINT: NOT DETERMINED.

SPECIFIC GRAVITY: 1.0

SOLUBILITY: POLYMERIZED

VAPOR DENSITY: NOT DETERMINED.

VAPOR PRESSURE: 10 MMHg @ 80 DEG. F

EVAPORATION RATE: NOT DETERMINED.

EVAPORATION POINT: NOT DETERMINED

PH: NOT DETERMINED.

FLASH POINT: >200 DEG. F (>93.3 DEG. C)

FLASH POINT METHOD: TAG CLOSED CUP (TCC)

AUTO IGNITION TEMPERATURE: NOT DETERMINED.

VOC CONTENT: 3% BY WEIGHT; 30 G/L

## SECTION 10 - STABILITY AND REACTIVITY



CHEMICAL STABILITY: STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

HAZARDOUS POLYMERIZATION:  
POLYMERIZATION MAY OCCUR UNDER CERTAIN CONDITIONS.

CONDITIONS TO AVOID: EXPOSURE TO MOISTURE

INCOMPATIBLE MATERIALS:  
POLYMERIZED BY CONTACT WITH MOISTURE. ACETIC ACID LIBERATED.

## SECTION 11 - TOXICOLOGICAL INFORMATION



POLYDIMETHYL SILOXANE:

RTECS NUMBER: JT6485000

EYE:  
EYE - RABBIT STANDARD DRAIZE TEST.: 100 (MICRO)L/24H [MILD]

SKIN:  
ADMINISTRATION ONTO THE SKIN - RABBIT LD:  
>10200 MG/KG [DETAILS OF TOXIC EFFECTS NOT REPORTED OTHER THAN LETHAL DOSE]

VALUE]

ADMINISTRATION ONTO THE SKIN - RABBIT STANDARD DRAIZE TEST:  
500 (MICRO)L/24H [MILD]

DIMETHYL SILOXANE, HYDROXY-TERMINATED:

RTECS NUMBER: VW3168750

SKIN:

ADMINISTRATION ONTO THE SKIN - RABBIT LD50:  
>16 ML/KG [KIDNEY, URETER, BLADDER - OTHER CHANGES NUTRITIONAL AND GROSS  
METABOLIC - OTHER CHANGES]

INHALATION:

INHALATION - RAT LC50:  
>8750 MG/M3/7H [LUNGS, THORAX, OR RESPIRATION - OTHER CHANGES]

INGESTION:

ORAL - RAT LD50:  
>15400 MG/KG [SENSE ORGANS AND SPECIAL SENSES (EYE) - PTOSIS  
BEHAVIORAL - SOMNOLENCE (GENERAL DEPRESSED ACTIVITY) KIDNEY, URETER,  
BLADDER - URINE VOLUME INCREASED]

AMORPHOUS SILICA:

RTECS NUMBER: VV7565000

DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE:

RTECS NUMBER: JN9379645

SKIN:

ADMINISTRATION ONTO THE SKIN - MOUSE TDLO:  
416 GM/KG/2Y-I [TUMORIGENIC - EQUIVOCAL TUMORIGENIC AGENT BY RTECS CRITERIA  
SKIN AND APPENDAGES - TUMORS]

METHYLTRIACETOXSILANE:

RTECS NUMBER: VV4500000

INGESTION:

ORAL - RAT LD50:  
2060 MG/KG [DETAILS OF TOXIC EFFECTS NOT REPORTED OTHER THAN LETHAL  
DOSE VALUE]

TITANIUM DIOXIDE:

RTECS NUMBER: XR2275000

SKIN:

ADMINISTRATION ONTO THE SKIN - HUMAN: 300 (MICRO)G/3D (INTERMITTENT)

CARCINOGENICITY:

IARC:  
GROUP 2B: POSSIBLY CARCINOGENIC TO HUMANS.

IRON OXIDE:

RTECS NUMBER: NO7400000

## SECTION 12 - ECOLOGICAL INFORMATION



ECOTOXICITY: NO ECOTOXICITY DATA WAS FOUND FOR THE PRODUCT.

ENVIRONMENTAL FATE: NO ENVIRONMENTAL INFORMATION FOUND FOR THIS PRODUCT.

## SECTION 13 - DISPOSAL CONSIDERATIONS



WASTE DISPOSAL:

CONSULT WITH THE US EPA GUIDELINES LISTED IN 40 CFR PART 261.3 FOR THE CLASSIFICATIONS OF HAZARDOUS WASTE PRIOR TO DISPOSAL. FURTHERMORE, CONSULT WITH YOUR STATE AND LOCAL WASTE REQUIREMENTS OR GUIDELINES, IF APPLICABLE, TO ENSURE COMPLIANCE. ARRANGE DISPOSAL IN ACCORDANCE TO THE EPA AND/OR STATE AND LOCAL GUIDELINES.

RCRA NUMBER: NOT DETERMINED.

## SECTION 14 - TRANSPORT INFORMATION



DOT SHIPPING NAME: UNRESTRICTED  
DOT UN NUMBER: NOT APPLICABLE.  
DOT HAZARD CLASS: NOT APPLICABLE.  
DOT PACKING GROUP: NOT APPLICABLE.

IATA SHIPPING NAME: NON REGULATED.  
IATA UN NUMBER: NOT APPLICABLE.  
IATA HAZARD CLASS: NOT APPLICABLE.

ICAO UN NUMBER: NONE  
ICAO SHIPPING NAME: NOT REGULATED  
ICAO HAZARD CLASS: NONE

## SECTION 15 - REGULATORY INFORMATION



POLYDIMETHYL SILOXANE:  
TSCA INVENTORY STATUS: LISTED  
CANADA DSL: LISTED

DIMETHYL SILOXANE, HYDROXY-TERMINATED:  
TSCA INVENTORY STATUS: LISTED  
CANADA DSL: LISTED

AMORPHOUS SILICA:  
TSCA INVENTORY STATUS: LISTED  
MASSACHUSETTS: LISTED  
PENNSYLVANIA: LISTED  
CANADA DSL: LISTED

DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE:  
TSCA INVENTORY STATUS: LISTED  
CANADA DSL: LISTED

METHYLTRIACETOXYSILANE:  
TSCA INVENTORY STATUS: LISTED  
CANADA DSL: LISTED

ETHYLTRIACETOXYSILANE:  
TSCA INVENTORY STATUS: LISTED  
CANADA DSL: LISTED



TITANIUM DIOXIDE:  
TSCA INVENTORY STATUS: LISTED  
MASSACHUSETTS: LISTED  
PENNSYLVANIA: LISTED  
CANADA DSL: LISTED

IRON OXIDE:  
TSCA INVENTORY STATUS: LISTED  
MASSACHUSETTS: LISTED  
PENNSYLVANIA: LISTED  
CANADA DSL: LISTED

CANADIAN REGULATIONS.:

WHMIS HAZARD CLASS(ES): D2B

ALL COMPONENTS OF THIS PRODUCT ARE ON THE CANADIAN DOMESTIC SUBSTANCES LIST.

## SECTION 16 - ADDITIONAL INFORMATION



HMIS HEALTH HAZARD 2  
HMIS FIRE HAZARD 1  
HMIS REACTIVITY  
HMIS PERSONAL PROTECTION 1

MSDS CREATION DATE: DECEMBER 27, 2008

MSDS REVISION DATE: JUNE 30, 2012

MSDS AUTHOR: ACTIO CORPORATION

### DISCLAIMER:

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### PRODUCT:

PERMATEX(R\*) 26BR HIGH TEMPERATURE RED RTV SILICONE GASKET MAKER - 3 OZ

### MANUFACTURER:

REVISION: 06/30/2012

VERSION: 0