

LOCTITE(R\*)

MATERIAL SAFETY DATA SHEET

HENKEL TECHNOLOGIES

REVISION DATE: 08/22/2006

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## -----1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION -----

PRODUCT NAME: .5 OZ ULTRA BLUE SIL(90008) PX

PRODUCT USE: SILICONE RUBBER SEALANT

ITEM NO.: 81920

REGION: CANADA

## COMPANY ADDRESS:

HENKEL CANADA, INC.

2225 MEADOWPINE BOULEVARD

MISSISSAUGA, ONTARIO L5N 7P2

## CONTACT INFORMATION:

TELEPHONE: 905.814.6511

EMERGENCY TELEPHONE: 905.814.6511

INTERNET: WWW.LOCTITE.COM

## -----2. COMPOSITION/INFORMATION ON INGREDIENTS -----

| HAZARDOUS COMPONENTS              | %       | ACGIH TLV  | OSHA PEL  | OTHER  |
|-----------------------------------|---------|--|---|--|
| CALCIUM CARBONATE<br>1317-65-3    | 30 - 60 | 10 MG/M3 TWA<br>(PARTICULATE<br>MATTER<br>CONTAINING<br>NO ASBESTOS<br>AND <1%<br>CRYSTALLINE<br>SILICA) | 15 MG/M3 TWA<br>TOTAL DUST<br>5 MG/M3 TWA<br>RESPIRABLE<br>FRACTION | NONE   |
| VINYL OXIMINO SILANE<br>2224-33-1 | 1 - 5   | NONE   | NONE  | NONE   |
| METHYL ETHYL KETOXIME<br>96-29-7  | 0.1 - 1 | NONE   | NONE  | 10 PPM,<br>DERMAL<br>SENSITIZER<br>TWA, (WEEL) |
| SILICA, QUARTZ<br>14808-60-7      | 0.1 - 1 | 0.025 MG/M3<br>TWA RESPIRABLE<br>FRACTION  | 0.1 MG/M3 TWA<br>(RESPIRABLE)                                       | NONE   |
| METHANOL<br>67-56-1               | 0 - 0.1 | 200 PPM TWA<br>250 PPM STEL<br>(SKIN)  | 200 PPM TWA<br>260 MG/M3<br>TWA                                     | NONE   |

NON HAZARDOUS COMPONENTS:  
SILICONE RESINS 30-50%

EXPOSURE TO MOISTURE DURING CURE WILL RELEASE 0.1 - 0.9% METHYL ALCOHOL.  
METHYL ETHYL KETOXIME(MEKO) IS FORMED DURING CURE.  
THIS PRODUCT WILL RELEASE UP TO 5% MEKO.

-----3. HAZARDS IDENTIFICATION -----

EMERGENCY OVERVIEW:

PHYSICAL STATE: PASTE

WHMIS HAZARD CLASS: D.2.A, D.2.B

COLOR: BLUE

ODOR: MILD PETROLEUM

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

RELEVANT ROUTES OF EXPOSURE: SKIN, INHALATION, EYES, INGESTION

POTENTIAL HEALTH EFFECTS:

INHALATION:

VAPORS AND MISTS WILL IRRITATE THE RESPIRATORY TRACT AND NASAL PASSAGES.  
WHEN HEATED TO TEMPERATURES EXCEEDING 300 DEG. F (150 DEG. C) IN THE  
PRESENCE OF AIR, SILICONES MAY FORM FORMALDEHYDE VAPORS.

FORMALDEHYDE IS A POTENTIAL CANCER HAZARD AND A KNOWN SKIN AND RESPIRATORY  
SENSITIZER. VAPORS IRRITATE THE EYES, NOSE AND THROAT. SAFE HANDLING  
CONDITIONS MAY BE MAINTAINED BY KEEPING FORMALDEHYDE VAPOR CONCENTRATIONS  
BELOW THE OSHA PERMISSIBLE LIMIT. THE SILANE IS A SKIN AND EYE IRRITANT AND  
MAY CAUSE SKIN BURNS. OVEREXPOSURE MAY CAUSE COMA AND RESPIRATORY FAILURE.  
THE LOW CONCENTRATION MAKES SUCH OVEREXPOSURE UNLIKELY AND MINIMIZES ITS  
AFFECT ON HEALTH AND SAFETY.

SKIN CONTACT: MAY CAUSE SKIN IRRITATION WITH DISCOMFORT OR RASH.

EYE CONTACT:

VAPORS MAY IRRITATE EYES. CONTACT WITH EYES WILL CAUSE IRRITATION.

INGESTION:

MODERATELY TOXIC BY INGESTION. NOT EXPECTED UNDER NORMAL CONDITIONS OF USE.

EXISTING CONDITIONS AGGRAVATED BY EXPOSURE: SKIN DISORDERS.

SEE SECTION 11 FOR ADDITIONAL TOXICOLOGICAL INFORMATION.

-----4. FIRST AID MEASURES -----

INHALATION:

REMOVE TO FRESH AIR. IF DISCOMFORT PERSISTS SEEK MEDICAL ATTENTION.

SKIN CONTACT:

WIPE OFF PASTE WITH PAPER TOWEL OR CLOTH. WASH WITH SOAP AND WATER.

EYE CONTACT:

RINSE IMMEDIATELY WITH PLENTY OF WATER, ALSO UNDER THE EYELIDS, FOR AT LEAST  
15 MINUTES. GET MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING. KEEP INDIVIDUAL CALM. OBTAIN MEDICAL ATTENTION.

-----5. FIRE-FIGHTING MEASURES -----

FLASH POINT: GREATER THAN 93 DEG. C (200 DEG. F) TAGLIABUE CLOSED CUP

AUTOIGNITION TEMPERATURE: NOT AVAILABLE

FLAMMABLE/EXPLOSIVE LIMITS-LOWER %: NOT AVAILABLE

FLAMMABLE/EXPLOSIVE LIMITS-UPPER %: NOT AVAILABLE

EXTINGUISHING MEDIA: CARBON DIOXIDE (CO2). FOAM. DRY CHEMICAL.

SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE OR EXPLOSION HAZARDS: NONE

HAZARDOUS COMBUSTION PRODUCTS: FORMALDEHYDE. SILICA FUME.

SENSITIVITY TO MECHANICAL IMPACT: NOT AVAILABLE.

SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE.

-----6. ACCIDENTAL RELEASE MEASURES -----

ENVIRONMENTAL PRECAUTIONS:

DO NOT FLUSH INTO SURFACE WATER OR SANITARY SEWER SYSTEM.

CLEAN-UP METHODS:

SCRAPE UP AS MUCH MATERIAL AS POSSIBLE. MAINTAIN GOOD VENTILATION FOR LARGE SPILLS. PLACE SCRAP MATERIAL IN A WELL VENTILATED AREA AND ALLOW TO CURE TO RUBBER.

-----7. HANDLING AND STORAGE -----

HANDLING:

AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPOR AND MIST. WASH THOROUGHLY AFTER HANDLING. DO NOT WEAR CONTACT LENSES.

STORAGE: KEEP CONTAINER CLOSED. STORE AT OR BELOW 32 DEG. C (90 DEG. F).

INCOMPATIBLE PRODUCTS:

NEVER ALLOW PRODUCT TO GET IN CONTACT WITH WATER DURING STORAGE.

FOR INFORMATION ON PRODUCT SHELF LIFE CONTACT LOCTITE CANADA CUSTOMER SERVICE AT (905) 814-6511.

-----8. EXPOSURE CONTROLS / PERSONAL PROTECTION -----

ENGINEERING CONTROLS:

USE LOCAL EXHAUST VENTILATION TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW ESTABLISHED EXPOSURE LIMITS.

RESPIRATORY PROTECTION:

USE A NIOSH APPROVED AIR-PURIFYING RESPIRATOR IF THE POTENTIAL TO EXCEED ESTABLISHED EXPOSURE LIMITS EXISTS.

SKIN PROTECTION: CHEMICAL RESISTANT, IMPERMEABLE GLOVES. IMPERVIOUS CLOTHING

EYE/FACE PROTECTION: SAFETY GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.  
SEE SECTION 2 FOR EXPOSURE LIMITS.

-----9. PHYSICAL AND CHEMICAL PROPERTIES -----

PHYSICAL STATE: PASTE  
COLOR: BLUE  
ODOR: MILD PETROLEUM  
ODOR THRESHOLD: NOT AVAILABLE  
VAPOR PRESSURE: <5 MMHg @20 DEG. C (68 DEG. F)  
pH: NOT APPLICABLE  
BOILING POINT/RANGE: NOT AVAILABLE  
MELTING POINT/RANGE: NOT AVAILABLE  
SPECIFIC GRAVITY: 1.31 AT 20 DEG. C  
VAPOR DENSITY: NOT AVAILABLE  
EVAPORATION RATE: NOT AVAILABLE  
SOLUBILITY IN WATER: POLYMERIZES IN PRESENCE OF WATER  
PARTITION COEFFICIENT (n-OCTANOL/WATER): NOT AVAILABLE  
VOC CONTENT: 3.33%; 43.09 GRAMS/LITER

-----10. STABILITY AND REACTIVITY -----

STABILITY: STABLE.  
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.  
HAZARDOUS DECOMPOSITION PRODUCTS: METHYL ETHYL KETOXIME FORMED DURING CURE.  
INCOMPATIBILITY: POLYMERIZES ON CONTACT WITH WATER.  
CONDITIONS TO AVOID: MOISTURE.

-----11. TOXICOLOGICAL INFORMATION -----

PRODUCT TOXICITY DATA: NOT AVAILABLE  
TOXICOLOGICALLY SYNERGISTIC PRODUCTS: NOT AVAILABLE.  
REFER TO THE FOLLOWING FOR IRRITANCY OF PRODUCT, SENSITIZATION TO PRODUCT,  
CARCINOGENICITY, REPRODUCTIVE TOXICITY, TERATOGENICITY, AND MUTAGENICITY.

INGREDIENT TOXICITY DATA & CARCINOGEN STATUS:

| HAZARDOUS COMPONENTS | LD50S & LC50S | OTHER LD50S AND LC50S |
|----------------------|---------------|-----------------------|
|----------------------|---------------|-----------------------|

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|                                   |  |      |
|-----------------------------------|--|------|
| CALCIUM CARBONATE<br>1317-65-3    | NONE   | NONE |
| VINYL OXIMINO SILANE<br>2224-33-1 | NONE   | NONE |
| METHYL ETHYL KETOXIME<br>96-29-7  | DERMAL LD50 (RABBIT):<br>0.2 MG/KG<br>INHALATION LC50 (RAT):<br>20 MG/L<br>ORAL LD50 (RAT):<br>930 MG/KG   | NONE |
| SILICA, QUARTZ<br>14808-60-7      | ORAL LD50 (RAT):<br>500 MG/KG  | NONE |
| METHANOL<br>67-56-1               | DERMAL LD50 (RABBIT):<br>15800 MG/KG<br>ORAL LD50 (RAT):<br>5628 MG/KG<br>INHALATION LC50 (RAT):<br>64000 PPM<br>INHALATION LC50 (RAT):<br>83.2 MG/L | NONE |

| HAZARDOUS COMPONENTS  | NTP<br>CARCINOGEN   | IARC<br>CARCINOGEN | OSHA<br>CARCINOGEN | ACGIH -<br>CARCINOGENS             |
|-----------------------|---------------------|--------------------|--------------------|------------------------------------|
| CALCIUM CARBONATE     | NO                  | NO                 | NO                 | NO                                 |
| VINYL OXIMINO SILANE  | NO                  | NO                 | NO                 | NO                                 |
| METHYL ETHYL KETOXIME | NO                  | NO                 | NO                 | NO                                 |
| SILICA, QUARTZ        | KNOWN<br>CARCINOGEN | GROUP 1            | YES                | A2 - SUSPECTED<br>HUMAN CARCINOGEN |
| METHANOL              | NO                  | NO                 | NO                 | NO                                 |

LITERATURE REFERENCED TARGET ORGAN & OTHER HEALTH EFFECTS:

| HAZARDOUS COMPONENTS              | HEALTH EFFECTS/TARGET ORGANS   |
|-----------------------------------|--|
| CALCIUM CARBONATE<br>1317-65-3    | NUISANCE DUST  |
| VINYL OXIMINO SILANE<br>2224-33-1 | ALLERGEN, IRRITANT   |
| METHYL ETHYL KETOXIME<br>96-29-7  | ALLERGEN, BLOOD, CENTRAL NERVOUS SYSTEM,<br>EYES, IRRITANT, SOME EVIDENCE OF CARCINOGENICITY |
| SILICA, QUARTZ<br>14808-60-7      | SOME EVIDENCE OF CARCINOGENICITY, LUNG, IMMUNE<br>SYSTEM                                     |
| METHANOL<br>67-56-1               | EYES, HEART, IRRITANT, KIDNEY, LIVER, METABOLIC,<br>NERVOUS SYSTEM, REPRODUCTIVE             |

-----12. ECOLOGICAL INFORMATION -----

ECOLOGICAL INFORMATION:

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NO SPECIFIC STUDIES HAVE BEEN CONDUCTED BY HENKEL ON THE ECOTOXICITY OR ENVIRONMENTAL FATE OF THIS MATERIAL; HOWEVER, COMMONLY AVAILABLE DATA ON THE MATERIAL INDICATE THAT UNCONTROLLED RELEASES TO SOIL, GROUNDWATER, OR SURFACE WATERS COULD ENTAIL ACUTE AND/OR CHRONIC ECOLOGICAL EFFECTS, DEPENDING ON THE QUANTITY AND CONCENTRATION OF SUCH RELEASES. RELEASES OF VOLATILE COMPONENTS TO THE ATMOSPHERE ARE NOT BELIEVED TO ENTAIL SIGNIFICANT ECOLOGICAL CONSEQUENCES PROVIDED SUCH RELEASES ARE WITHIN THE EXPOSURE LEVELS SET FORTH IN THIS DOCUMENT. ACCORDINGLY, ALL APPROPRIATE MEASURES SHOULD BE TAKEN TO AVOID UNCONTROLLED RELEASES TO THE ENVIRONMENT, AND ANY SPILLS OR OTHER UNCONTROLLED RELEASES WHICH MAY OCCUR SHOULD BE CONTAINED AND CLEANED UP IMMEDIATELY IN ACCORDANCE WITH SECTION 6.

-----13. DISPOSAL CONSIDERATIONS -----

INFORMATION PROVIDED IS FOR UNUSED PRODUCT ONLY.

RECOMMENDED METHOD OF DISPOSAL:  
DISPOSE OF IN ACCORDANCE WITH FEDERAL AND LOCAL REGULATIONS.

-----14. TRANSPORT INFORMATION -----

CANADA TRANSPORTATION OF DANGEROUS GOODS - GROUND:  
PROPER SHIPPING NAME: UNRESTRICTED  
HAZARD CLASS OR DIVISION: NONE  
IDENTIFICATION NUMBER: NONE  
PACKING GROUP: NONE

INTERNATIONAL AIR TRANSPORTATION (ICAO/IATA):  
PROPER SHIPPING NAME: UNRESTRICTED  
HAZARD CLASS OR DIVISION: NONE  
IDENTIFICATION NUMBER: NONE  
PACKING GROUP: NONE

WATER-TRANSPORTATION (IMO/IMDG):  
PROPER SHIPPING NAME: UNRESTRICTED  
HAZARD CLASS OR DIVISION: NONE  
IDENTIFICATION NUMBER: NONE  
PACKING GROUP: NONE  
MARINE POLLUTANT: NONE  
EXCEPTIONS: NONE

-----15. REGULATORY INFORMATION -----

CANADA REGULATORY INFORMATION:

CEPA DSL/NDL STATUS:  
ALL COMPONENTS ARE LISTED ON OR ARE EXEMPT FROM LISTING ON THE DOMESTIC SUBSTANCES LIST.

UNITED STATES REGULATORY INFORMATION:

TSCA 8 (B) INVENTORY STATUS:  
ALL COMPONENTS ARE LISTED OR ARE EXEMPT FROM LISTING ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY.

-----16. OTHER INFORMATION -----

THIS MATERIAL SAFETY DATA SHEET CONTAINS CHANGES FROM THE PREVIOUS VERSION IN SECTIONS: NEW MATERIAL SAFETY DATA SHEET FORMAT.

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THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CONTROLLED PRODUCT REGULATIONS.

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