(P)

G.M.S. SEALER TYPE B **RTV SILICONE RUBBER T 200B** 1052914 1052917

SECTION 0 - EFFECTIVE DATE

- 1 -> Effective Date: 122292
- 2 -> MSDS signed by: Not Provided
- 3 -> Title: Not Provided

SECTION 1 - SHIPPING INFORMATION

- 1 -> Chemical Family: MOISTURE-CURING SILICONE SEALANT
- 2 -> Formula: NOT APPLICABLE

(*)MID: #533844

WACKER SILICONES CORP

DUNS Account #: 07-540-0671

Emergency telephone #: 517/264-8500

3301 SUTTON ROAD

CHEMTREC: 800/424-9300

ADRIAN, MI 49221

Shipping Name: NON-REGULATED MATERIAL

Hazard Class: Not Subject to DOT Regulation

U.N. Code:

Flash Point: N/A

SECTION 2 - INGREDIENTS

CAS# 070131678 Formulation

52% BY WT 063148629

10% BY WT

063148629 = 015901403 5 /10% BY WT

001333864 1 /5% BY WT

989980580 < 1% BY WT 989971494 15 /40% BY WT

000108918 3% BY WT Chemical Name X 22-160C

SILOXANE, DIMETHYL- (lot no. AA-4163)

Silanetriamine, N,N',N"-tricyclohexyl-1-methyl-

Carbon black

ORGANOFUNCTIONAL SILANE ESTER

INERT FILLER Cyclohexanamine

SECTION 3 - PHYSICAL DATA

- 1 -> Boiling Point: NOT APPLICABLE
- 2 -> Specific Gravity: =1.03
- 3 -> Vapor Pressure: NOT APPLICABLE
- 4 ->% Volatile by Volume: 3 BY WEIGHT
- 5 ->% Solid by Weight: Not Provided
- 6 -> Vapor Density: 3.4
- 7 -> Evaporation Rate: NOT APPLICABLE
- 8 -> Solubility in H20: NEGLIGIBLE
- 9 -> pH: Not Provided
- 10 -> Appearance & Odor: BLACK PASTE / AMMONIACAL ODOR
- 11 -> State: PASTE

SECTION 4 - FIRE AND EXPLOSION DATA

- 1 -> Flammable Limits LEL: NOT APPLICABLE
- 2 -> Flammable Limits UEL: NOT APPLICABLE
- 3 -> Extinguishing Media: USE STANDARD FIRE FIGHTING TECHNIQUES TO EXTINGUISH FIRES INVOLVING THIS MATERIAL: USE WATER SPRAY, DRY CHEMICALS OR CARBON DIOXIDE
- 4 -> Special Fire Fighting Procedures: AS IN ANY FIRE, PREVENT HUMAN EXPOSURE TO FIRE, SMOKE, FUMES OR PRODUCTS OF COMBUSTION. EVACUATE NON-ESSENTIAL PERSONNEL FROM THE FIRE AREA. FIRE FIGHTERS SHOULD WEAR FULL-FACE, SELF-CONTAINED BREATHING APPARATUS AND IMPERVIOUS PROTECTIVE CLOTHING.
- 5 -> Unusual Fire & Explosion Hazards: THIS IS A PASTE LIKE MATERIAL THAT WILL BURN WITH A LAZY SMOLDERING TYPE FLAME. COMBUSTION PRODUCTS OF THE UNCURED RUBBER ARE TOXIC. THERE ARE NO UNUSUAL HAZARDS WITH THE CURED MATERIAL. FLAMMABLE VAPORS MAY ACCUMULATE IN THE CONTAINER HEADSPACE ON FORMATION OF HYDROLYSIS BY-PRODUCTS, VAPORS FROM COMBUSTION OF THE UNCURED MATERIAL ARE TOXIC. HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) (FOR MATERIAL AS PACKAGED): HEALTH HAZARD=3; FLAMMABILITY HAZARD=1; REACTIVITY HAZARD=1; PERSONAL PROTECTION=G.

SECTION 5 - HEALTH HAZARD DATA

1 -> Effects of Overexposure: EYE CONTACT: CAUSES BURNS, SKIN CONTACT: CAUSES IRRITATION. INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION. INGESTION: NOT EXPECTED IN INDUSTRIAL USE. ACUTE EFFECTS OF EXPOSURE: REFER TO ROUTES OF EXPOSURE ABOVE. CHRONIC EFFECTS OF EXPOSURE: NONE KNOWN. THIS MATERIAL RELEASES CYCLOHEXYLAMINE UPON MOISTURE CURING. EXPOSURE TO CYCLOHEXYLAMINE VAPORS MAY CAUSE IRRITATION OF THE EYES. MUCOUS MEMBRANES AND SKIN. DIRECT CONTACT WITH THE EYES AND SKIN WILL CAUSE BURNS AND MAY CAUSE PERMANENT DAMAGE. A REVERSIBLE NARCOTIC EFFECT WAS NOTED IN THREE CASES OF ACUTE HUMAN EXPOSURE. ALTHOUGH POSITIVE MUTAGENIC RESULTS WERE NOTED IN TWO EXPERIMENTS. SEVERAL STUDIES HAVE SHOWN NO EVIDENCE OF MUTAGENICITY. IN ADDITION, SEVERAL STUDIES HAVE SHOWN NO EVIDENCE OF TERATOGENICITY. UPON COMPLETION OF THE CURING PROCESS, CYCLOHEXYLAMINE WILL NO LONGER BE RELEASED. THIS MATERIAL IS A SILICONE RUBBER FOR WHICH THE TOXICOLOGY RESULTS IN

ANIMALS SHOWS IT TO BE CORROSIVE TO RABBIT EYES AND SKIN. IT IS BELIEVED THAT THE EFFECTS SEEN WERE DUE TO THE ADHESIVE PROPERTIES OF THE MATERIAL AS IT WAS REMOVED FROM THE TEST ANIMAL, AND NOT ACTUAL CORROSIVE ACTION. BASED ON MANY YEARS OF EXPERIENCE IN HANDLING THIS MATERIAL, EYE BURNS, SKIN AND RESPIRATORY TRACT IRRITATION CAN BE EXPECTED. THERE ARE NO DATA AVAILABLE WHICH ADDRESS MEDICAL CONDITIONS WHICH ARE GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

- ->Threshold Limit Value: CYCLOHEXYLAMINE (HYDROLYSIS BY-PRODUCT): 10 PPM.
- 3 -> Permissible Exposure Limit: CYCLOHEXYLAMINE (HYDROLYSIS BY-PRODUCT):
- 4 -> Other limit: Not Provided
- 5 -> Primary routes of entry: EYE CONTACT, SKIN CONTACT, INHALATION.
- 6 -> Emergency First Aid Procedures: EYE CONTACT: IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF RUNNING WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS APART TO ENSURE RINSING OF THE ENTIRE SURFACE OF THE EYE AND LIDS WITH WATER. GET MEDICAL ATTENTION IMMEDIATELY. SKIN CONTACT: REMOVE EXCESS MATERIAL FROM THE SKIN WITH A WATERLESS SKIN CLEANER. FLUSH SKIN WITH PLENTY OF WATER AND WASH WELL WITH WATER AND SOAP. REMOVE CONTAMINATED CLOTHING AND SHOES. OBTAIN MEDICAL ATTENTION, WASH CLOTHING BEFORE REUSE, INHALATION: IF INHALED, REMOVE TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION OCCURS OR BREATHING BECOMES DIFFICULT. INGESTION: NOT APPLICABLE.

SECTION 6 - REACTIVITY DATA

- 1 -> Stable: STABLE AT AMBIENT TEMPERATURES AND ATMOSPHERIC PRESSURE.
- ->Conditions to Avoid: AVOID CONTACT WITH WATER, ACIDS, ALCOHOL, STRONG ALKALIES, STRONG OXIDIZING AGENTS.
- ->Incompatible Materials: UNCURED MATERIAL, REACTS WITH ATMOSPHERIC MOISTURE TO FORM A CURED SEALANT, RELEASING CYCLOHEXYLAMINE UNTIL THE CURING PROCESS IS COMPLETE. KEEP CONTAINER CLOSED TO PREVENT EXPOSURE TO MOISTURE.
- -> Hazardous Decomposition Products: SIO2, CO, CO2, FORMALDEHYDE AND VARIOUS HYDROCARBON FRAGMENTS.
- 5 -> Can Hazardous Polymerization Occur: Not Provided
- 6 -> Conditions to Avoid: Not Provided SECTION 7 - SPILL OR LEAK PROCEDURES

1 ->Steps to be taken in case material is released or spilled: MAKE SURE ALL PERSONNEL INVOLVED IN THE SPILL CLEANUP FOLLOW GOOD INDUSTRIAL HYGIENE PRACTICES (REFER TO SECTION 8: INDUSTRIAL HYGIENE). ANY PERSON ENTERING EITHER A SIGNIFICANT SPILL AREA OR AN UNKNOWN CONCENTRATION OF VAPOR OR AEROSOL SHOULD USE A POSITIVE-PRESSURE, SELF-CONTAINED BREATHING APPARATUS OR A POSITIVE-PRESSURE, SUPPLIED-AIR RESPIRATOR WITH ESCAPE PACK. SMALL SPILLS CAN BE HANDLED ROUTINELY. USE ADEQUATE VENTILATION AND WEAR A NIOSH-APPROVED RESPIRATOR WITH DUST, MIST AND FUME FILTER TO PREVENT INHALATION EXPOSURE. WEAR PROTECTIVE CLOTHING TO PREVENT SKIN AND EYE CONTACT. USE THE FOLLOWING PROCEDURES: ABSORB SPILL WITH SAND OR FULLER'S EARTH. SWEEP UP AND PLACE IN AN APPROPRIATE CHEMICAL WASTE CONTAINER. FLUSH SPILL AREA WITH WATER. OBSERVE ALL LOCAL, STATE AND

AND EYE CONTACT. 2 -> Waste Disposal Method: UNUSED MATERIAL: MATERIAL THAT CANNOT BE USED OR CHEMICALLY REPROCESSED SHOULD BE DISPOSED OF AT AN APPROVED FACILITY IN ACCORDANCE WITH ANY APPLICABLE REGULATIONS UNDER THE RCRA. NOTE: STATE AND LOCAL REGULATIONS MAY BE MORE STRINGENT THAT FEDERAL. CONTAINER: DISPOSE OF EMPTY CONTAINERS ACCORDING TO ANY APPLICABLE REGULATIONS UNDER THE RCRA. NOTE: STATE AND LOCAL REGULATIONS MAY BE MORE STRINGENT THAN FEDERAL. EMPTY CONTAINERS MAY CONTAIN RESIDUAL

FEDERAL LAWS AND REGULATIONS REGARDING DISPOSAL, SPILL, CLEANUP,

REMOVAL OR DISCHARGE. USE PROPER PROTECTIVE EQUIPMENT TO PREVENT SKIN

- MATERIAL. DO NOT REUSE CONTAINERS UNLESS PROPERLY RECONDITIONED. 3 -> CERCLA (Superfund) Reportable quantity (lbs): Not Provided
- 4 -> RCRA Hazardous Waste No. (40 CFR 261.33): NOT APPLICABLE
- 5 -> Volatile Organic Compound (VOC) Theoretical: Not Provided
- 6 -> Volatile Organic Compound (VOC) Analytical: Not Provided

SECTION 8 - SPECIAL PROTECTION INFORMATION

1 -> Respiratory Protection: INHALATION: IF USE CONDITIONS GENERATE AIRBORNE CONTAMINATION, THE MATERIAL SHOULD BE HANDLED IN AN OPEN (E.G., OUTDOOR) OR WELL VENTILATED AREA. WHERE ADEQUATE VENTILATION IS NOT AVAILABLE, USE NIOSH APPROVED ORGANIC VAPOR RESPIRATORS WITH DUST. MIST AND FUME FILTER TO REDUCE EXPOSURE. WHERE EXPOSURE POTENTIAL UNDER THE USE CONDITIONS NECESSITATES A HIGHER LEVEL OF PROTECTION, USE A POSITIVE-PRESSURE, AIR-SUPPLIED RESPIRATOR, NOTE: RESPIRATORY PROTECTION IS RECOMMENDED IN THE EVENT THAT VENTILATION OR ENGINEERING CONTROLS ARE UNABLE TO MAINTAIN EXPOSURES BELOW RECOMMENDED LEVELS, OR IN THE EVENT OF A SPILL OR OTHER EMERGENCY SITUATION

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