

MATERIAL SAFETY DATA SHEET REQUIRED UNDER SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING

DATE PREPARED: AUGUST 13, 2007

SECTION 1 - PRODUCT AND COMPANY INFORMATION PRODUCT NAME TM BUFFER SOLUTION PRODUCT NUMBER SD8107

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENT SUBSTANCE NAME CAS # SARA 313 TM BUFFER SOLUTION NONE NO INGREDIENT NAME CAS # PERCENT SARA 313 MAGNESIUM SULFATE ANHYDROUS 7487-88-9 0.12 NO TRIS (HYDROXYMETHYL) AMINOMETHANE 1185-53-1 0.158 NO HYDROCHLORIDE SALT WATER 7732-18-5 99.722 NO

SECTION 3 - HAZARDS IDENTIFICATION HMIS RATING HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0 NFPA RATING HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0 FOR ADDITIONAL INFORMATION ON TOXICITY, PLEASE REFER TO SECTION 11.

SECTION 4 - FIRST AID MEASURES ORAL EXPOSURE IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN. INHALATION EXPOSURE IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, CALL A PHYSICIAN. DERMAL EXPOSURE IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER. EYE EXPOSURE IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

SECTION 5 - FIRE FIGHTING MEASURES FLASH POINT N/A AUTOIGNITION TEMP N/A FLAMMABILITY N/A EXTINGUISHING MEDIA SUITABLE: WATER SPRAY. CARBON DIOXIDE, DRY CHEMICAL POWDER, OR APPROPRIATE FOAM. FIREFIGHTING PROTECTIVE EQUIPMENT: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES. SPECIFIC HAZARD(S): EMITS TOXIC FUMES UNDER FIRE CONDITIONS. SECTION 6 - ACCIDENTAL RELEASE MEASURES METHODS FOR CLEANING UP ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE. SECTION 7 - HANDLING AND STORAGE HANDLING USER EXPOSURE: AVOID INHALATION. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE. STORAGE SUITABLE: KEEP TIGHTLY CLOSED. SECTION 8 - EXPOSURE CONTROLS / PPE ENGINEERING CONTROLS SAFETY SHOWER AND EYE BATH. MECHANICAL EXHAUST REQUIRED. PERSONAL PROTECTIVE EQUIPMENT RESPIRATORY: USE RESPIRATORS AND COMPONENTS TESTED AND APPROVED

UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR CEN (EU). RESPIRATORY PROTECTION IS NOT REQUIRED. WHERE PROTECTION IS DESIRED, USE MULTI-PURPOSE COMBINATION (US) OR TYPE ABEK (EN 14387) RESPIRATOR CARTRIDGES. HAND: PROTECTIVE GLOVES. EYE: CHEMICAL SAFETY GOGGLES. GENERAL HYGIENE MEASURES WASH THOROUGHLY AFTER HANDLING.

SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES APPEARANCE PHYSICAL STATE: LIQUID PROPERTY VALUE AT TEMPERATURE OR PRESSURE MOLECULAR WEIGHT N/A PH N/A **BP/BP RANGE N/A** MP/MP RANGE N/A FREEZING POINT N/A VAPOR PRESSURE N/A VAPOR DENSITY N/A SATURATED VAPOR CONC. N/A SG/DENSITY N/A **BULK DENSITY N/A** ODOR THRESHOLD N/A **VOLATILE% N/A** VOC CONTENT N/A WATER CONTENT N/A SOLVENT CONTENT N/A **EVAPORATION RATE N/A**

VISCOSITY N/A SURFACE TENSION N/A PARTITION COEFFICIENT N/A **DECOMPOSITION TEMP. N/A** FLASH POINT N/A **EXPLOSION LIMITS N/A** FLAMMABILITY N/A AUTOIGNITION TEMP N/A **REFRACTIVE INDEX N/A OPTICAL ROTATION N/A** MISCELLANEOUS DATA N/A SOLUBILITY N/A N/A = NOT AVAILABLE SECTION 10 - STABILITY AND REACTIVITY STABILITY STABLE: STABLE. MATERIALS TO AVOID: STRONG OXIDIZING AGENTS. HAZARDOUS DECOMPOSITION PRODUCTS HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, HYDROGEN CHLORIDE GAS, SULFUR OXIDES, MAGNESIUM OXIDE. HAZARDOUS POLYMERIZATION HAZARDOUS POLYMERIZATION: WILL NOT OCCUR SECTION 11 - TOXICOLOGICAL INFORMATION ROUTE OF EXPOSURE SKIN CONTACT: MAY CAUSE SKIN IRRITATION. SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. EYE CONTACT: MAY CAUSE EYE IRRITATION. INHALATION: MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. MAY BE HARMFUL IF INHALED. INGESTION: MAY BE HARMFUL IF SWALLOWED. SIGNS AND SYMPTOMS OF EXPOSURE TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED. SECTION 12 - ECOLOGICAL INFORMATION

NO DATA AVAILABLE.

SECTION 13 - DISPOSAL CONSIDERATIONS APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL. DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14 - TRANSPORT INFORMATION DOT PROPER SHIPPING NAME: NONE NON-HAZARDOUS FOR TRANSPORT: THIS SUBSTANCE IS CONSIDERED TO BE NON-HAZARDOUS FOR TRANSPORT. IATA NON-HAZARDOUS FOR AIR TRANSPORT: NON-HAZARDOUS FOR AIR TRANSPORT.

SECTION 15 - REGULATORY INFORMATION UNITED STATES REGULATORY INFORMATION SARA LISTED: NO CANADA REGULATORY INFORMATION WHMIS CLASSIFICATION: THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR, AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR. DSL: YES NDSL: NO

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