

## MATERIAL SAFETY DATA SHEET

SUMA ADVANTAGE HW P5.1 4X90CS Product Name (800)831-9889 Emergency I UPC-A 774205556968 SCC 10774205556965 Medical(Collect) (303)592-1024 57296409 Product Code Chemical Product Chemtree (800)424-9300 Manufacturer JOHNSONDIVERSEY INC. and Company 3630 E. KEMPER RD 06/08/2002 Date Indentification **CINCINNATI, OH 45241-2046** MACHINE DISH DETERGENT Chemical Family Units Chemical Name of Hazardous Ingredient **Exposure Limits SODIUM HYDROXIDE 1310-73-2** 10 TLV-C 2 MG/M3  $\Pi$ Composition/ Information on Ingredients EYES: SEVERE BURNS, TISSUE DAMAGE, OR IRRITATION WITH PAIN, SWELLING, BLURRED OR IMPAIRED VISION, BLINDNESS. SKIN: SEVERE BURNS, TISSUE DESTRUCTION, BLISTERS OR Signs П RASH WITH SWELLING AND PAIN. INGESTION: MAY BE FATAL. and SEVERE BURNS TO MOUTH AND THROAT MAY RESULT WITH PAIN, Symptoms GASTRIC PERFORATION AND DIFFICULTY IN SWALLOWING OR BREATHING. INHALATION: SPRAY OR MISTS CAUSE BURNS OR SEVERE IRRITATION TO NOSE, THROAT AND RESPIRATORY Exposure Ш O TRACT WITH PAIN, CHOKING, AND EXPERIENCE DIFFICULTY IN BREATHING. CHRONIC: SAME AS ACUTE EFFECTS. Haz ards Identific ation HMIS: Health Flammability Reactivity Personal Protection C Conditions Aggravated DERMATITIS OR SENSITIVE SKIN. Carcinogen Info NONE NTP **IARC OSHA** Target Organs or System EYES, SKIN, MOUTH AND ESOPHAGUS. Routes of Exposure: Inhalation X Skin X Ingestion X REMOVE TO FRESH AIR AND SEEK MEDICAL ATTENTION. Inhalation INGESTION CONT: NEVER GIVE FLUIDS BY MOUTH TO AN UNCONSCIOUS PERSON. IV Eyes IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MIN. HOLD EYELIDS APART TO COMPLETELY FLUSH ALL CHEMICALS FROM ENTIRE EYE SURFACE. GET IMMEDIATE MEDICAL ATTENTION. First Aid Measures FLUSH THOROUGHLY WITH PLENTY OF WATER. WASH WITH MILD SOAP AND Skin WATER, REMOVE CONTAMINATED CLOTHES AND SHOES AND CLEAN BEFORE REUSE. GET MEDICAL ATTENTION FOR ANY PAINFUL, RED OR INJURED SKIN Ingestion IF SWALLOWED, RINSE MOUTH WITH WATER. DILUTE BY DRINKING SEVERAL GLASSES OF WATER. DO NOT INDUCE VOMITING: IF PATIENT VOMITS, RE RINSE MOUTH. GET IMMEDIATE MEDICAL ATTENTION. WEAR FULL PROTECTIVE GEAR AND POSITIVE PRESSURE BREATHING Fire Control APPARATUS (SCBA) IN FIRE AREA. Measures/ Equipment V Flammable Property Info NONE Fire Fighting NONE KNOWN. **Explosion Info** Measures Extinguishing Media WATER, WATER SPRAY, CO2, FOAM OR DRY POWDER. NONE Gases

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VI Accidental Measures	Spill and Leak Clean UP Procedures CERCLA. Contain Spill. Wear Protective Clothing. Soak Up or absorb Liquid ON SUITABLE ABSORBENT MATERIAL. COLLECT AND PLACE IN CHEMICAL WASTE CONTAINER. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. FLUSH SPILL AREA WITH WATER. THIS PRODUCT DOES NOT CONTAIN A REPORTABLE QUANTITY (RQ) UNDER CERCLA.  Environmental Precautions
	Ventilation Required? NONE Instructions NONE REQUIRED.
VII Handling and Storage	Safe Storage, Handling and Use Instructions  WEAR PROTECTIVE GEAR WHEN USING OR HANDLING. PRODUCT FREEZES BELOW 50 DEG.F. THAW BY WARMING TO 70 DEG.F & MIX FOR USE. ADD PRODUCT SLOWLY WITH MIXING TO WATER OR LIQ.TO AVOID HEAT. DO NOT LET PRODUCT COLLECT ON BOTTOM OF TANK & DO NOT PRESSURE TO EMPTY.
	Imcompatible Materials ACIDS
	Protective Gloves ALKALI RESISTENT.
VIII	Eye Protection CHEMICAL GOGGLES IF CONTACT OR SPLASH HAZARD EXISTS.
Exposure Controls/ Personal Protection	Respiratory Protection  USE NIOSH/MSHA APPROVED RESPIRATOR WHERE TLV/PEL MAY BE EXCEEDED.
	Other Protective Clothing Equipment  RUBBER BOOTS & CHEMICAL RESISTANT APRON IF CONTACT OR SPLASH HZRD EXISTS. EYEWASH & SAFETY SHOWER IN AREA IF CONTACT OR SPLASH EXIS
	Characteristics o of Hazardous Chemcial  Vapor Pressure N/A MmHg@ NA °C Vapor Density(Air=1 N/A pH 13+ Water Solubility SOL %
IX Physical and Chemical Properties	Appearance & Odor CLEAR LIQUID, CHEMICAL ODOR.
	Boiling Point 215 °F Melting Point °F Flammability Limits in Air By Volume: Upper N/A Lower N/A
	Flash Point NONE °F Auto Ignition °F Oxidizing Properties
	Specific Gravity 1.24 Volatile by Volume N/A %
	Evaporation Rate(n-Butyl Acetate=1)  Peroxide, Pyrophoric, Unstable or Water Reactive STABLE
X	Reactivity and Hazardous Polymerization NONE KNOWN.
	Possible Hazardous Reactions NONE
Stability and	Conditions to Avoid NONE
Reactivity	Materials ACIDS To Avoid
	Hazardous INCOMPLETE COMBUSTION FORMS; OXIDES OF NITROGEN. Decomposition Products
XI Toxicological Information	NO DATA AVAILABLE.
XII	Possible Effects and Environmental Fate NO DATA AVAILABLE
Ecological Information	Degradability
mormation	Aquatic Toxicity  Mathod of AD HIST BLI OF BUILTED PRODUCT AND DISCHARGE TO INDUSTRIAL SEWER IN
XIII Disposal Consideration	Method of Disposal, Residues and Safe Handling  ADJUST PH OF DILUTED PRODUCT AND DISCHARGE TO INDUSTRIAL SEWER IN ACCORDANCE WITH DISCHARGE PERMIT OR LOCAL POTW REGULATIONS. USE PRODUCT IN CONTAINER WITH WATER AND ADD TO PROCESS. RECYCLE OR DISPOSE OF CONTAINER ACCORDING TO PRODUCT LABELING OR FEDERAL, STATE OR LOCAL REGULATIONS.
	Disposal of Contaminated Material INCOMPLETE COMBUSTION FORMS; OXIDES OF NITROGEN.
XIV	SODIUM HYDROXIDE SOLUTION, 8, UN1824, PG II, ERG NO. 60, NAERG NO. 154
Transport Information  XV-Regulatory Information	
XVI-Other Information	
S.A.R.A. Title III Section 313	NONE
State Right to Know Information	WATER - CAS #7732-18-5 SODIUM HYDROXIDE - CAS #1310-73-2 TRISODIUM NITRILOACETATE - CAS #18662-53-8 SODIUM POLYACRYLATE - CAS #9003-04-7