



MATERIAL SAFETY DATA SHEET

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I Chemical Product and Company Identification	Product Name SUMA ADVANTAGE MS P9.1 4X90CS	Emergency (800)831-9889					
	Product Code 57297409	UPC-A 774205556975 SCC 10774205556972				Medical(Collect) (303)592-1024	
	Manufacturer JOHNSON DIVERSEY INC. 3630 E. KEMPER RD CINCINNATI, OH 45241-2046					Chemtree (800)424-9300	
						Date 06/11/2002	
	Chemical Family MACHINE DISH DETERGENT						
II Composition/ Information on Ingredients	Chemical Name of Hazardous Ingredient POTASSIUM HYDROXIDE 1310-58-3			% 10	Exposure Limits TWA - C 2		
III Hazards Identification	Signs and Symptoms of Exposure A C U T E C H R O N I C	EYES: SEVERE BURNS, TISSUE DAMAGE, OR IRRITATION WITH PAIN; SWELLING, BLURRED OR IMPAIRED VISION, BLINDNESS. SKIN: SEVERE BURNS, TISSUE DESTRUCTION, BLISTERS OR RASH WITH SWELLING AND PAIN. INGESTION: MAY BE FATAL. SEVERE BURNS TO MOUTH AND THROAT MAY RESULT WITH PAIN,					
		GASTRIC PERFORATION AND DIFFICULTY IN SWALLOWING OR BREATHING. INHALATION: SPRAY OR MISTS CAUSE BURNS OR SEVERE IRRITATION TO NOSE, THROAT AND RESPIRATORY TRACT WITH PAIN, CHOKING, AND EXPERIENCE DIFFICULTY IN BREATHING. CHRONIC: SAME AS ACUTE EFFECTS.					
	HMIS: Health 3 Flammability 0 Reactivity 0 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 ☒ Skin ☒ Ingestion ☒							
IV First Aid Measures	Inhalation	REMOVE TO FRESH AIR AND SEEK MEDICAL ATTENTION. INGESTION CONT: NEVER GIVE FLUIDS BY MOUTH TO AN UNCONSCIOUS PERSON.					
	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.					
	Skin	FLUSH THOROUGHLY WITH PLENTY OF WATER. WASH WITH MILD SOAP AND 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.					
V Fire Fighting Measures	Fire Control Measures/ Equipment	WEAR FULL PROTECTIVE GEAR AND POSITIVE PRESSURE BREATHING APPARATUS (SCBA) IN FIRE AREA.					
	Flammable Property Info	NONE					
	Explosion Info	NONE KNOWN.					
	Extinguishing Media	WATER, WATER SPRAY, CO2, FOAM OR DRY POWDER.					
	Gases	NONE					

VI Accidental Measures	Spill and Leak Clean UP Procedures	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 Precaution:											
VII Handling and Storage	Ventilation Required?	NONE Instructions NONE REQUIRED.										
	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										
VIII Exposure Controls/ Personal Protection	Protective Gloves	ALKALI RESISTENT.										
	Eye Protection	CHEMICAL GOGGLES IF CONTACT OR SPLASH HAZARD EXISTS.										
	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										
IX Physical and Chemical Properties	Characteristics o of Hazardous Chemical											
	Vapor Pressure	N/A	MmHg@	NA	°C	Vapor Density(Air=1)	N/A	pH	13.13	Water Solubility	SOL	%
	Appearance & Odor	STRAW COLOR 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	1.3				Volatile by Volume		N/A			%	
	Evaporation Rate(n-Butyl Acetate=1)											
X Stability and Reactivity	Peroxide, Pyrophoric, Unstable or Water Reactive	STABLE										
	Reactivity and Hazardous Polymerization	NONE KNOWN.										
	Possible Hazardous Reactions	NONE										
	Conditions to Avoid	NONE										
	Materials To Avoid	ACIDS										
	Hazardous Decomposition Products	INCOMPLETE COMBUSTION FORMS; OXIDES OF CARBON; OXIDES OF PHOSPHORUS.										
XI Toxicological Information	NO DATA AVAILABLE.											
XII Ecological Information	Possible Effects and Environmental Fate NO DATA AVAILABLE											
	Degradability											
	Aquatic Toxicity											
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 UNTIL EMPTY. TRIPLE RINSE 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 CARBON; OXIDES OF PHOSPHORUS.										
XIV Transport Information	POTASSIUM HYDROXIDE SOLUTION, 8, UN1814, PG II, NAERG NO. 154											
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 POTASSIUM HYDROXIDE - CAS #1310-58-3 SODIUM TRIPOLYPHOSPHATE - CAS #7758-29-4 SODIUM SILICATE - CAS #1344-09-8 SODIUM POLYACRYLATE - CAS #9003-01-4											