JOHNSON S C AND SON INC -- FORWARD DC -- 7930-01-418-1365

===================== Product Identification ===================== Product ID:FORWARD DC

MSDS Date:06/20/1995

FSC:7930 NIIN:01-418-1365 Status

Code:A MSDS Number: CKZQN

=== Responsible Party ===

Company Name:JOHNSON S C AND SON INC

Address:1525 HOWE ST City:RACINE State:WI ZIP:53403-2237 Country:US Info Phone Num:800-725-6737 Emergency Phone Num:800-228-5635 X092 Preparer's Name:MNFR'S TECH SUPPORT DEPT CAGE:32204

=== Contractor Identification ===

Company Name:SC JOHNSON AND SON INC Address:1525 HOWE ST Box:City:RACINE State:WI ZIP:53403-2236 Country:US Phone:800-725-6737 CAGE:32204

============= Composition/Information on Ingredients ============= Ingred Name:SODIUM HYDROXIDE (SARA III) CAS:1310-73-2 RTECS #:WB4900000 Minumum % Wt:.1 Maxumum % Wt:1.5 OSHA PEL:2 MG/M3 ACGIH TLV:C 2 MG/M3 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS Ingred Name:SODIUM SILICATE CAS:1344-09-8 RTECS #:1002947SS Minumum % Wt:1. Maxumum % Wt:5. Ingred Name:ALKYLPHENOXY POLYETHOXYETHANOL CAS:26027-38-3 RTECS #:MD0906000 Minumum % Wt:1. Maxumum % Wt:5. Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Fraction by Wt: 80-90% Ingred Name:N-ALKYL DIMETHYL BENZYL AMONIUM CHLORIDES CAS:68391-01-5 Fraction by Wt: 1.6% Ingred Name:SODIUM TRIPOLYPHOSPHATE CAS:7758-29-4 RTECS #:YK4570000 Minumum % Wt:1. Maxumum % Wt:5. EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

===================== Hazards Identification ===================== Routes of Entry: Inhalation:UNKNOWN Skin:YES Ingestion:NO Health Hazards Acute and Chronic:EYE: MAY CAUSE MODERATE EYE IRRITATION. SKIN: MAY CAUSE MODERATE SKIN IRRITATION. INHAL: NONE KNOWN. INGEST: MAY BE HARMFUL IF SWALLOWED. Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTABLE TO IRRITATING EFFECTS.

======================= First Aid Measures ======================= First Aid:EYE:FLUSH W/WATER FOR AT LEAST 15 MINS. IF IRRITATION PERSISTS, SEEK MD. SKIN:WASH W/PLENTY OF WATER AND SOAP. IF IRRITATION PERSISTS, SEEK MD. INGEST:IF PRODUCT IS SWALLOWED, DRINK LARGE AMOUNTS OF W ATER OR MILK & SEEK MD. INHAL:NO SPECIAL REQUIREMENTS.

===================== Fire Fighting Measures ===================== Extinguishing Media:FOAM, CARBON DIOXIDE, DRY CHEMICAL & WATER FOG. Fire Fighting Procedures:COOL AND USE CAUTION WHEN APPROACHING OR HANDLING FIRE EXPOSED CONTAINERS. Unusual Fire/Explosion Hazard:CORROSIVE MATERIAL. CONTAINER MAY BURST IN HEAT OF FIRE. ================== Accidental Release Measures ================== Spill Release Procedures:ABSORB W/OIL-DRI OR SIMILAR INERT MATERIAL. SWEEP OR SCRAPE UP & CONTAINERIZE. RINSE AFFECTED AREAS THOROUGHLY W/WATER. WEAR/USE APPROPRIATE PROTECTIVE EQUIPMENT. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

====================== Handling and Storage ====================== Handling and Storage Precautions:LAUNDER CONTAMINATED CLOTHING/EQUIPMENT BEFORE REUSE. KEEP OUT OF REACH OF CHILDREN. STORE IN COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP FROM FREEZING. WASH THOROOUGHLY AFTER HANDLING. Other Precautions:FOR INDUSTRIAL USE ONLY. PRODUCT RESIDUE MAY REMAIN ON/IN EMPTY CONTAINERS. ALL PRECAUTIONS FOR HANDLING THE PROUDCT MUST BE USED IN HANDLING THE EMPTY CONTAINER & RESIDUE. HAZARDS TO HUMANS AND OTHER ANIMALS. CAUTION: AVOID EYE/SKIN CONTACT. KEEP OUT OF REACH OF CHILDREN.

============= Exposure Controls/Personal Protection ============= Respiratory Protection:NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS. Ventilation:NO SPECIAL REQUIREMENTS. Protective Gloves:IMPERVIOUS MATERIAL GLOVES. Eye Protection:CHEM WRKRS GOG & FULL LGTH FSHLD . Other Protective Equipment:IF MAJOR EXPOSURE IS POSSIBLE TO EYES/SKIN, USE APPROPRIATE PROTECTIVE EQUIPMENT. Work Hygienic Practices:USE GOOD PERSONAL HYGIENE PRACTICES. LAUNDER CONTAMINATED CLOTHING/EQUIPMENT BEFORE REUSE. WASH THORO AFTER HANDLING. Supplemental Safety and Health

================== Physical/Chemical Properties ================== Boiling Pt:=93.3C, 200.F Spec Gravity:1.08 WATER=1 pH:12.5-13.5 Solubility in Water:COMPLETE Appearance and Odor:GREEN LIQUID, MILD ODOR.

================= Stability and Reactivity Data ================= Stability Indicator/Materials to Avoid:YES STRONG ACIDS (E.G. MURIATIC ACID). Stability Condition to Avoid:NONE KNOWN. Hazardous Decomposition Products:WHEN EXPOSED TO FIRE, PRODUCES NORMAL PRODUCTS OF COMBUSTION.

=================== Toxicological Information =================== Toxicological Information:SODIUM HYDROXIDE: LD50: 140-130 MG/KG ORAL RAT. LC50: >40 MG/M3 INHAL-RAT 1 HOUR. N-ALKYL DIMETHYL BENZYL AMONIUM CHLORIDE: LD50: 2500 MG/KG ORAL-RAT. ALKYLPHENOXY POLYETHOXYETHANOL: LD50: 1600-2000 M G/KG ORAL-RAT. 2830 MG/KG DERMAL-RABBIT. SODIUM TRIPOLYPHOSPATE: LD50: 6500 MG/KG ORAL-RAT. SODIUM SILCATE: LD50: 1150 MG/KG ORAL-RAT.

===================== Ecological Information ===================== Ecological:EPA REGISTRATION #4822-21

==================== Disposal Considerations ==================== Waste Disposal Methods:FOR UNDILUTED PROD: PESTICIDAL WASTE: OBSERVE ALL APPLICABLE FED/STATE/LOCAL MUNICIPAL REGULATIONS REGARDING DISPOSAL OF PESTICIDAL WASTE.

===================== Regulatory Information ===================== State Regulatory Information:SODIUM HYDROXIDE: PA HAZARDOUS SUBSTANCE LIST; NJ RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST; MA HAZARDOUS SUBSTANCE LIST. SODIUM TRIPOLYPHOSPHATE: PA, NJ, AND MA HAZARDOUS SUBSTANCE LISTS. ALL INGREDIA NTS IN THIS PRODUCT COMPLY WITH THE NEW SUBSTANCES NOTIFICATION REQUIREMENTS UNDER THE CANADIAN ENVIRONMENTAL ACT (CEPA). Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.