



# MATERIAL SAFETY DATA SHEET

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|                                                               |                                                                                                                                                                                                                |                                                              |                                                                                                                                                                                                                    |                                                         |                 |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------|
| <b>I</b><br>Chemical Product<br>and Company<br>Identification | Product Name <b>SUMA STAR D1     4X1CS</b>                                                                                                                                                                     |                                                              |                                                                                                                                                                                                                    | Emergency <b>(800)831-9889</b>                          |                 |
|                                                               | Product Code <b>57227280     UPC-A 774205555626     SCC 10774205555623</b>                                                                                                                                     |                                                              |                                                                                                                                                                                                                    | Medical(Collect) <b>(303)592-1024</b>                   |                 |
|                                                               | Manufacturer <b>JOHNSON DIVERSEY INC.<br/>3630 E. KEMPER RD<br/>CINCINNATI, OH 45241-2046</b>                                                                                                                  |                                                              |                                                                                                                                                                                                                    | Chemtree <b>(800)424-9300</b><br>Date <b>05/28/2002</b> |                 |
|                                                               | Chemical Family <b>HAND DISHWASHING LIQUID</b>                                                                                                                                                                 |                                                              |                                                                                                                                                                                                                    |                                                         |                 |
| <b>II</b><br>Composition/<br>Information<br>on Ingredients    | Chemical Name of Hazardous Ingredient<br><b>NONE</b>                                                                                                                                                           |                                                              |                                                                                                                                                                                                                    | %                                                       | Exposure Limits |
|                                                               |                                                                                                                                                                                                                |                                                              |                                                                                                                                                                                                                    |                                                         |                 |
| <b>III</b><br>Hazards<br>Identification                       | Signs<br>and<br>Symptoms<br>of<br>Exposure                                                                                                                                                                     | A<br>C<br>U<br>T<br>E<br><br>C<br>H<br>R<br>O<br>N<br>I<br>C | <b>EYES: MAY CAUSE EYE IRRITATION. SKIN: MAY CAUSE SKIN IRRITATION. INGESTION: IF SWALLOWED, GASTRIC DISTRESS, DIARRHEA, NAUSEA AND VOMITING MAY OCCUR. INHALATION: MAY CAUSE IRRITATION OF RESPIRATORY TRACT.</b> |                                                         |                 |
|                                                               |                                                                                                                                                                                                                |                                                              | <b>NONE KNOWN.</b>                                                                                                                                                                                                 |                                                         |                 |
|                                                               | HMIS:     Health <b>1</b> Flammability <b>0</b> Reactivity <b>0</b> Personal Protection <b>A</b>                                                                                                               |                                                              |                                                                                                                                                                                                                    |                                                         |                 |
|                                                               | Conditions Aggravated <b>DERMATITIS OR SENSITIVE SKIN.</b>                                                                                                                                                     |                                                              |                                                                                                                                                                                                                    |                                                         |                 |
|                                                               | Carcinogen Info                                                                                                                                                                                                |                                                              | NTP                                                                                                                                                                                                                | IARC                                                    | OSHA            |
|                                                               | Target Organs or System                                                                                                                                                                                        |                                                              |                                                                                                                                                                                                                    |                                                         |                 |
|                                                               | Routes of Exposure:     Inhalation <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Ingestion <input type="checkbox"/>                                                             |                                                              |                                                                                                                                                                                                                    |                                                         |                 |
| <b>IV</b><br>First Aid Measures                               | Inhalation <b>REMOVE TO FRESH AIR AND SEEK MEDICAL ATTENTION.</b>                                                                                                                                              |                                                              |                                                                                                                                                                                                                    |                                                         |                 |
|                                                               | Eyes <b>IMMEDIATELY FLUSH WITH PLENTY OF WATER. IF IRRITATION OR REDNESS DEVELOP, GET MEDICAL ATTENTION.</b>                                                                                                   |                                                              |                                                                                                                                                                                                                    |                                                         |                 |
|                                                               | Skin <b>FLUSH SKIN WITH PLENTY OF WATER AND WASH WITH MILD SOAP. IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION.</b>                                                                                            |                                                              |                                                                                                                                                                                                                    |                                                         |                 |
|                                                               | Ingestion <b>DO NOT TAKE INTERNALLY. IF SWALLOWED, DRINK SEVERAL GLASSES OF WATER. DO NOT INDUCE VOMITING. CONTACT A PHYSICIAN OR POISON CONTROL CTR. NEVER GIVE FLUIDS BY MOUTH TO AN UNCONSCIOUS PERSON.</b> |                                                              |                                                                                                                                                                                                                    |                                                         |                 |
| <b>V</b><br>Fire Fighting<br>Measures                         | Fire Control Measures/ Equipment <b>WEAR FULL PROTECTIVE GEAR AND POSITIVE PRESSURE BREATHING APPARATUS (SCBA) IN FIRE AREA.</b>                                                                               |                                                              |                                                                                                                                                                                                                    |                                                         |                 |
|                                                               | Flammable Property Info <b>NONE</b>                                                                                                                                                                            |                                                              |                                                                                                                                                                                                                    |                                                         |                 |
|                                                               | Explosion Info <b>NONE KNOWN.</b>                                                                                                                                                                              |                                                              |                                                                                                                                                                                                                    |                                                         |                 |
|                                                               | Extinguishing Media <b>FLOOD WITH WATER.</b>                                                                                                                                                                   |                                                              |                                                                                                                                                                                                                    |                                                         |                 |
|                                                               | Gases <b>NONE</b>                                                                                                                                                                                              |                                                              |                                                                                                                                                                                                                    |                                                         |                 |

|                                                                                                                                                                                                                                             |                                                  |                                                                                                                                                                                                                                                                                                               |       |               |    |                                             |                    |       |      |                  |     |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------|----|---------------------------------------------|--------------------|-------|------|------------------|-----|---|
| VI<br>Accidental Measures                                                                                                                                                                                                                   | Spill and Leak Clean Up Procedures               | <b>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 REGULATION FLUSH SPILL AREA WITH WATER. THIS PRODUCT DOES NOT CONTAIN A REPORTABLE QUANTITY (RQ) UNDER CERCLA.</b> |       |               |    |                                             |                    |       |      |                  |     |   |
|                                                                                                                                                                                                                                             | Environmental Precaution:                        |                                                                                                                                                                                                                                                                                                               |       |               |    |                                             |                    |       |      |                  |     |   |
| VII<br>Handling and Storage                                                                                                                                                                                                                 | Ventilation Required?                            | NONE Instructions NONE REQUIRED                                                                                                                                                                                                                                                                               |       |               |    |                                             |                    |       |      |                  |     |   |
|                                                                                                                                                                                                                                             | Safe Storage, Handling and Use Instructions      | STORE IN A COOL, DRY AREA. KEEP FROM FREEZING. IF FROZEN, RETURN TO PRODUCING PLANT. KEEP CONTAINER CLOSED WHEN NOT IN USE.<br>SPILLED PRODUCT MAY CAUSE SLIPPERY SURFACE AND FALL HAZARDS.                                                                                                                   |       |               |    |                                             |                    |       |      |                  |     |   |
|                                                                                                                                                                                                                                             | Incompatible Materials                           | NONE KNOWN.                                                                                                                                                                                                                                                                                                   |       |               |    |                                             |                    |       |      |                  |     |   |
| VIII<br>Exposure Controls/ Personal Protection                                                                                                                                                                                              | Protective Gloves                                | LIQUID PROOF RUBBER OR NEOPRENE GLOVES. AVOID COTTON,WOOL&LEATHER                                                                                                                                                                                                                                             |       |               |    |                                             |                    |       |      |                  |     |   |
|                                                                                                                                                                                                                                             | Eye Protection                                   | CHEMICAL GOGGLES IF CONTACT OR SPLASH HAZARD EXISTS.                                                                                                                                                                                                                                                          |       |               |    |                                             |                    |       |      |                  |     |   |
|                                                                                                                                                                                                                                             | Respiratory Protection                           | NOT NORMALLY REQUIRED.                                                                                                                                                                                                                                                                                        |       |               |    |                                             |                    |       |      |                  |     |   |
|                                                                                                                                                                                                                                             | Other Protective Clothing Equipment              | NOT NORMALLY REQUIRED.                                                                                                                                                                                                                                                                                        |       |               |    |                                             |                    |       |      |                  |     |   |
| IX<br>Physical and Chemical Properties                                                                                                                                                                                                      | Characteristics o of Hazardous Chemical          |                                                                                                                                                                                                                                                                                                               |       |               |    |                                             |                    |       |      |                  |     |   |
|                                                                                                                                                                                                                                             | Vapor Pressure                                   | N/A                                                                                                                                                                                                                                                                                                           | MmHg@ | NA            | °C | Vapor Density(Air=1)                        | N/A                | pH    | 5.5  | Water Solubility | SOL | % |
|                                                                                                                                                                                                                                             | Appearance & Odor                                | GREEN LIQUID, CHEMICAL ODOR.                                                                                                                                                                                                                                                                                  |       |               |    |                                             |                    |       |      |                  |     |   |
|                                                                                                                                                                                                                                             | Boiling Point                                    | 215                                                                                                                                                                                                                                                                                                           | °F    | Melting Point | °F | Flammability Limits in Air By Volume: Upper | NONE               | Lower | NONE |                  |     |   |
|                                                                                                                                                                                                                                             | Flash Point                                      | NONE                                                                                                                                                                                                                                                                                                          | °F    | Auto Ignition | °F | Oxidizing Properties                        |                    |       |      |                  |     |   |
|                                                                                                                                                                                                                                             | Specific Gravity                                 | 1.03                                                                                                                                                                                                                                                                                                          |       |               |    |                                             | Volatile by Volume | 55    | %    |                  |     |   |
|                                                                                                                                                                                                                                             | Evaporation Rate(n-Butyl Acetate=1)              |                                                                                                                                                                                                                                                                                                               |       |               |    |                                             |                    |       |      |                  |     |   |
| X<br>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                               | NONE KNOWN                                                                                                                                                                                                                                                                                                    |       |               |    |                                             |                    |       |      |                  |     |   |
|                                                                                                                                                                                                                                             | Hazardous Decomposition Products                 | NONE KNOWN. OXIDES OF CARBON; OXIDES OF SULFUR.                                                                                                                                                                                                                                                               |       |               |    |                                             |                    |       |      |                  |     |   |
| XI<br>Toxicological Information                                                                                                                                                                                                             | NO DATA AVAILABLE                                |                                                                                                                                                                                                                                                                                                               |       |               |    |                                             |                    |       |      |                  |     |   |
| XII<br>Ecological Information                                                                                                                                                                                                               | Possible Effects and Environmental Fate          | NO DATA AVAILABLE                                                                                                                                                                                                                                                                                             |       |               |    |                                             |                    |       |      |                  |     |   |
|                                                                                                                                                                                                                                             | Degradability                                    |                                                                                                                                                                                                                                                                                                               |       |               |    |                                             |                    |       |      |                  |     |   |
|                                                                                                                                                                                                                                             | Aquatic Toxicity                                 |                                                                                                                                                                                                                                                                                                               |       |               |    |                                             |                    |       |      |                  |     |   |
| XIII<br>Disposal Consideration                                                                                                                                                                                                              | Method of Disposal, Residues and Safe Handling   | NOT REGULATED.<br>DISPOSE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.                                                                                                                                                                                                                           |       |               |    |                                             |                    |       |      |                  |     |   |
|                                                                                                                                                                                                                                             | Disposal of Contaminated Material                | NONE KNOWN. OXIDES OF CARBON; OXIDES OF SULFUR.                                                                                                                                                                                                                                                               |       |               |    |                                             |                    |       |      |                  |     |   |
| XIV<br>Transport Information                                                                                                                                                                                                                | COMPOUNDS, CLEANING, N.O.I., LIQUID              |                                                                                                                                                                                                                                                                                                               |       |               |    |                                             |                    |       |      |                  |     |   |
| XV-Regulatory Information                                                                                                                                                                                                                   |                                                  |                                                                                                                                                                                                                                                                                                               |       |               |    |                                             |                    |       |      |                  |     |   |
| XVI-Other Information                                                                                                                                                                                                                       |                                                  |                                                                                                                                                                                                                                                                                                               |       |               |    |                                             |                    |       |      |                  |     |   |
| S.A.R.A. Title III Section 313                                                                                                                                                                                                              |                                                  |                                                                                                                                                                                                                                                                                                               |       |               |    |                                             |                    |       |      |                  |     |   |
| State Right to Know Information                                                                                                                                                                                                             |                                                  |                                                                                                                                                                                                                                                                                                               |       |               |    |                                             |                    |       |      |                  |     |   |
| <b>WATER - CAS # 7732-18-5</b><br><b>DODECYLBENZENE SULFONIC ACID - CAS #27176-87-0</b><br><b>SODIUM ALCOHOL ETHOXY SULFATE - CAS #68891-38-3</b><br><b>MAGNESIUM SULFATE - CAS #10034-99-8</b><br><b>SODIUM HYDROXIDE - CAS #1310-73-2</b> |                                                  |                                                                                                                                                                                                                                                                                                               |       |               |    |                                             |                    |       |      |                  |     |   |