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**MATERIAL SAFETY DATA SHEET**

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Revised 2/02/04  
Replaces 8/12/03  
Printed 2/03/04

**SUMA STAR D1****MSDS ID: 57227040**

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**I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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Product Name: SUMA STAR D1  
Product Descriptor: HAND DISHWASHING LIQUID  
MANUFACTURER: JOHNSON DIVERSEY, INC. EMERGENCY PHONE NUMBER: (800) 851-7145  
3630 E. KEMPER ROAD  
CINCINNATI, OH. 45241

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**II. HAZARDOUS COMPONENTS**

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| Component Name | CAS Number | % | Exposure Limits | Units |
|----------------|------------|---|-----------------|-------|
| -----          |            |   |                 |       |
| NONE           |            |   |                 |       |

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**III. HAZARDS IDENTIFICATION**

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EMERGENCY OVERVIEW:  
CAUTION - Contains cleaning agents that may cause eye and respiratory irritation. May be harmful if swallowed. Avoid contact with eyes or clothing and breathing of mists. Prolonged contact with undiluted product may cause skin irritation.  
POSSIBLE ROUTES OF ENTRY: Skin contact/absorption and inhalation.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

ACUTE: 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.  
CHRONIC: None known

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Dermatitis or sensitive skin.

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**IV. FIRST AID MEASURES**

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EYES: Immediately flush with plenty of water. If irritation or redness develop, get medical attention.  
SKIN: Flush skin with plenty of water and wash with mild soap. If irritation develops, get medical attention.  
INGESTION: If swallowed, rinse mouth with water. Dilute by drinking several glasses of water. DO NOT induce vomiting. If patient vomits, rerinse mouth. Get immediate medical attention. NOTE: Never give fluids by mouth to an unconscious person.  
INHALATION: Remove to fresh air and seek medical attention.

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**V. FIRE FIGHTING MEASURES**

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FLASH POINT (degrees F): None FLAME EXTENSION: N/A  
FLAMMABLE LIMITS IN AIR BY VOLUME: LEL: N/A UEL: N/A  
UNUSUAL FIRE OR EXPLOSIVE HAZARDS: None known.  
EXTINGUISHING MEDIA: Flood with water.  
FIRE FIGHTING INSTRUCTIONS: Wear full protective gear and positive pressure breathing apparatus SCBA) in fire area.

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V. FIRE FIGHTING MEASURES (Cont.)

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SPECIAL INSTRUCTIONS: Spilled product may cause slippery surface and fall hazard.

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VI. ACCIDENTAL RELEASE MEASURES

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IF MATERIAL IS RELEASED OR SPILLED:

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.

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VII. HANDLING AND STORAGE

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HANDLING AND STORAGE PRECAUTIONS: Store in a cool, dry area. Keep from freezing. If frozen, return to producing plant. Keep container closed when not in use.

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VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

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EYE/FACE PROTECTION: Chemical goggles if contact or splash hazard exists.

PROTECTIVE GLOVES: Liquid proof rubber or neoprene gloves. Avoid cotton, wool and leather.

RESPIRATORY PROTECTION: Not normally required.

OTHER PROTECTIVE CLOTHING/EQUIPMENT: Not normally required.

ENGINEERING CONTROLS:

VENTILATION: None required.

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IX. PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE AND ODOR: Green liquid, chemical odor.

BOILING POINT (DEG F): 215F

FREEZING POINT: Not determined

SPECIFIC GRAVITY/BULK DENSITY: 1.03

pH: 5.5

pH 1% SOLUTION: Not Determined

VOLATILE BY VOLUME: 55%

SOLUBILITY IN WATER: Soluble

VAPOR PRESSURE(mmHg): N/A at N/A

VAPOR DENSITY: N/A

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X. STABILITY AND REACTIVITY

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CHEMICAL STABILITY: Product stable.

INCOMPATIBILITY WITH OTHER MATERIALS: None known

HAZARDOUS DECOMPOSITION PRODUCTS: None known. oxides of carbon; oxides of sulfur

HAZARDOUS POLYMERIZATION: None known.

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XI. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL TESTING: No data available.  
TOXICITY TEST DATA:  
No data available.

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XII. ECOLOGICAL INFORMATION

ECOTOXICITY TEST DATA:  
No data available.  
ENVIRONMENTAL FATE: No data available.

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XIII. DISPOSAL CONSIDERATIONS

RCRA REGULATED: Not regulated  
Dispose in accordance with Federal, State and Local regulations.

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XIV. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up to date shipping information.

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XV. REGULATORY INFORMATION

U.S. Federal Regulations:  
TSCA: All ingredients in this product are on TSCA inventory.  
HAPS: None  
VOC CONTENT (EPA Method 24A): % VOC: N/A Lb/Gal VOC: N/A  
CERCLA/EPCRA:  
Section 313 Toxic Chemicals:  
N/A  
SARA Section 311/312:  
ACUTE:NO CHRONIC:NO FIRE:NO REACTIVITY:NO  
SUDDEN RELEASE OF PRESSURE:NO  
LISTED CARCINOGEN: None  
NTP: No IARC: No OSHA: No  
HMIS RATINGS: HEALTH: 1 FIRE: 0 REACTIVITY: 0  
PERSONAL PROTECTIVE EQUIPMENT: A  
NFPA RATING: HEALTH: 1 FIRE: 0 REACTIVITY:0 SPECIAL:---  
STATE RIGHT-TO-KNOW INFORMATION:  
WATER - CAS #7732-18-5  
DODECYLBENZENE SULFONIC ACID - CAS #27176-87-0  
SODIUM ALCOHOL ETHOXY SULFATE - CAS #68891-38-3  
MAGNESIUM SULFATE - CAS #10034-99-8  
SODIUM HYDROXIDE - CAS #1310-73-2  
CALIFORNIA PROPOSITION 65:  
None of the ingredients are on the California proposition 65 list.

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XVI. OTHER INFORMATION

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DISCLAIMER: The information contained in this material safety data sheet is based on the knowledge of this specific product and current national legislation. It applies to the product as sold, use dilutions may be less hazardous. It may not be valid for this material if used in combination with any other materials or in a process. It is the user's responsibility to evaluate the handling, and use.