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**MATERIAL SAFETY DATA SHEET**

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

**LIQUA SAFE****MSDS ID: 0964100**

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**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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Product Name: LIQUA SAFE

Product Code: 0964280

Product Function: MACHINE DISHWASHING PRODUCT

MANUFACTURER: JOHNSON DIVERSEY, INC.

EMERGENCY PHONE NUMBER: (800) 851-7145

3630 E. KEMPER ROAD

CINCINNATI, OH. 45241

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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

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| Ingredient Name(CAS Number) | % | Exposure Limits |
|-----------------------------|---|-----------------|
|-----------------------------|---|-----------------|

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|                                        |     |                 |
|----------------------------------------|-----|-----------------|
| POTASSIUM METASILICATE<br>(10006-28-7) | <20 | NOT ESTABLISHED |
|----------------------------------------|-----|-----------------|

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|---------------------------------|----|-----------------|
| SODIUM HYPOCHLORITE (7681-52-9) | <3 | NOT ESTABLISHED |
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**3. HAZARDS IDENTIFICATION**

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Primary Routes of Entry

Inhalation: YES

Skin: NO

Ingestion: YES

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**4. FIRST AID MEASURES**

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Eyes: FLUSH THOROUGHLY WITH FRESH WATER FOR AT LEAST 15 MINUTES, GET MEDICAL ATTENTION.

Skin: FLUSH WITH FRESH WATER, WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHES AND SHOES. GET MEDICAL ATTENTION.

Ingestion: GIVE WATER. DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION

Inhalation: N/A IN NORMAL OPERATION.

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**5. FIRE FIGHTING MEASURES**

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Flash Point (degrees F): NONE

Unusual Fire or Explosion Hazards: NONE KNOWN

Extinguishing Media: WATER, WATER FOG, DRY CHEMICAL

Fire Fighting Instructions: WEAR PROTECTIVE GEAR AND SELF CONTAINED BREATHING APPARATUS IN FIRE AREA.

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**6. ACCIDENTAL RELEASE MEASURES**

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If Material is Released or Spilled:

FLUSH SMALL AMOUNTS TO DRAIN. COLLECT AND RETURN LARGE AMOUNTS TO CONTAINER.

CERCLA RQ - SODIUM HYPOCHLORITE = 4,000 POUNDS OR 370 GALLONS

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## 7. HANDLING AND STORAGE

DO NOT PRESSURE CONTAINER TO EMPTY. IF FROZEN, THAW AND MIX TO MAKE USABLE.  
KEEP CONTAINER CLOSED.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/Face Protection: FACE SHIELD OR GOGGLES  
Protective Gloves: ALKALI RESISTANT  
Respiratory Protection: WEAR NIOSH APPROVED RESPIRATOR IF TLV OR PEL  
EXPOSURE LIMITS ARE EXCEEDED.  
Other Protective Clothing/Equipment: WEAR APRON OR PROTECTIVE CLOTHING TO  
PREVENT PROLONGED SKIN CONTACT.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: CLEAR, SLIGHTLY YELLOW LIQUID; CHLORINE ODOR  
Boiling Point (F): 215 Freezing Point: Not Determined  
Specific Gravity: 1.3000 pH: Not Determined  
pH 1% SOLUTION: Not Determined  
Volatile (% by Vol.): 70 Solubility in Water: 100

## 10. STABILITY AND REACTIVITY

Chemical Stability: STABLE  
Incompatibility With Other Materials: MINERAL ACIDS RELEASE CHLORINE  
Hazardous Decomposition Products: CL2  
Hazardous Polymerization: None

## 11. TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure:  
Acute: NAUSEA/CORROSIVE TO SKIN AND EYES MISTS ARE CORROSIVE TO SKIN, EYES  
AND RESPIRATORY TRACT  
Chronic: SAME AS ACUTE  
Medical Conditions Generally Aggravated by Exposure:  
SENSITIVE SKIN, EYES, IMPAIRED PULMONARY FUNCTION.

## 12. ECOLOGICAL INFORMATION

No data available.

## 13. DISPOSAL CONSIDERATIONS

USE UNTIL LESS THAN 1 INCH REMAINS IN CONTAINER, EMPTY CONTAINER TRIPLE RINSE  
WITH WATER, DISPOSE TO INDUSTRIAL OR SANITARY SEWER REMOVE OR DEFACE LABEL  
BEFORE SELLING CONTAINER OR DISPOSAL CONTAINS PHOSPHATES ALL CHEMICAL  
COMPONENTS ARE ON TSCA INVENTORY.

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**14. TRANSPORT INFORMATION**

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

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**15. REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS:**

CERCLA/EPCRA/313 Toxic Chemicals:  
NONE

**CARCINOGENICITY:**

Not listed as carcinogenic by IARC, NTP, OSHA, ACGIH

HMIS Ratings: Health: 3      Fire: 0      Reactivity: 0  
Personal Protective Equipment: C

**State Right-to-Know Information:**

POTASSIUM META SILICATE - CAS #10006-28-7  
WATER - CAS #7732-18-5  
SODIUM TRIPOLYPHOSPHATE - CAS #7758-29-4  
SODIUM HYPOCHLORITE - CAS #7681-52-9

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**16. OTHER INFORMATION**

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**DISCLAIMER:** The information contained in this safety data sheet is based on knowledge of this specific product and current national legislation. 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 applicability of this information for their particular conditions of storage, handling, and use.