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**MATERIAL SAFETY DATA SHEET**

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

**LIQUID CYCLE****MSDS ID: 00347**

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**I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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PRODUCT NAME: LIQUID CYCLE  
PRODUCT DESCRIPTOR: LIQUID BURNISHING COMPOUND  
MANUFACTURER: JOHNSON DIVERSEY, INC. EMERGENCY PHONE NUMBER: (800) 851-7145  
3630 E. KEMPER ROAD  
CINCINNATI, OH. 45241

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**II. COMPOSITION/INFORMATION ON INGREDIENTS**

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| INGREDIENT NAME(CAS NUMBER)     | %   | EXPOSURE LIMITS | UNITS |
|---------------------------------|-----|-----------------|-------|
| POTASSIUM HYDROXIDE (1310-58-3) | <6  | STEL C2         | MG/M3 |
| SODIUM NITRITE (7632-00-0)      | <12 | LD 50 85        | MG/KG |

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**III. HAZARDS IDENTIFICATION**

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ROUTES OF ENTRY: INHALATION: YES  
SKIN: YES  
INGESTION: YES  
SIGNS AND SYMPTOMS OF EXPOSURE:  
ACUTE: WILL CAUSE BURNS TO EYES AND SKIN. MISTS ARE RESPIRATORY IRRITANTS.  
CHRONIC: SAME AS ACUTE  
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:  
SENSITIVE SKIN AND EYES

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**IV. 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. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.  
INHALATION: N/A IN NORMAL OPERATION

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**V. FIRE FIGHTING MEASURES**

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|                                    |       |                                                                           |           |
|------------------------------------|-------|---------------------------------------------------------------------------|-----------|
| FLASH POINT: NONE                  | DEG F | FLAME EXTENSION: N/A                                                      | IN.       |
| FLAMMABLE LIMITS IN AIR BY VOLUME: |       | LEL: NONE                                                                 | UEL: NONE |
| UNUSUAL FIRE OR EXPLOSION HAZARDS: |       | NONE KNOWN                                                                |           |
| EXTINGUISHING MEDIA:               |       | CO2, FOAM, DRY CHEMICALS                                                  |           |
| FIRE FIGHTING INSTRUCTIONS:        |       | WEAR PROTECTIVE GEAR AND SELF CONTAINED BREATHING APPARATUS IN FIRE AREA. |           |

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## VI. ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED OR SPILLED: FLUSH SMALL AMOUNTS TO DRAIN; COLLECT AND RETURN LARGE AMOUNTS TO DRUM.

## VII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: KEEP BUNGS IN DRUM. DO NOT PRESSURE CONTAINER TO EMPTY.

## VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: FACE SHIELD/SAFETY GOGGLES  
PROTECTIVE GLOVES: ALKALI RESISTANT  
RESPIRATORY PROTECTION: NONE  
OTHER PROTECTIVE CLOTHING/EQUIPMENT: PROTECTIVE APRON  
EXPOSURE GUIDELINES: SEE SECTION II FOR DETAILED INFORMATION.

## IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (F): 220 SPECIFIC GRAVITY: 1.1490  
VOLATILE BY VOLUME: 70 SOLUBILITY IN WATER: 100  
VAPOR PRESSURE (MMHG): 17.5 AT 20 C  
APPEARANCE AND ODOR: LIQUID, YELLOW; NO ODOR

## X. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE  
INCOMPATIBILITY WITH OTHER MATERIALS: ALUMINUM, ANY ACIDS, REDUCING AGENTS  
CAUSE VIGOROUS REACTIONS.  
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON, HYDROGEN, NITROGEN  
HAZARDOUS POLYMERIZATION: NONE

## XI. TOXICOLOGICAL INFORMATION

NO DATA AVAILABLE

## XII. ECOLOGICAL INFORMATION

NO DATA AVAILABLE

## XIII. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: PH ADJUSTMENT. NO PHOSPHOROUS, PHENOLS, CRESOLS OR HEAVY METAL IONS. USE UNTIL LESS THAN 1 INCH REMAINS IN CONTAINER, EMPTY CONTAINER TRIPLE RINSE WITH WATER, ADD TO OPERATION REMOVE OR DEFACE LABEL BEFORE SELLING CONTAINER OR DISPOSAL REPORTABLE QUANTITY: 909 POUNDS OR 95 GALLONS SODIUM NITRITE

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**XIV. TRANSPORT INFORMATION**

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**HAZARDOUS MATERIALS DESCRIPTION/PROPER SHIPPING NAME:**

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

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**XV. REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS:**

**CERCLA/EPCRA:SECTION 313 TOXIC CHEMICALS:**

NONE

**LISTED CARCINOGEN: NONE**

NTP: NO IARC: NO OSHA: NO

**HMIS RATINGS: HEALTH: 3 FIRE: 0 REACTIVITY: 1**

PERSONAL PROTECTIVE EQUIPMENT: D

**STATE RIGHT-TO-KNOW INFORMATION:**

**SODIUM NITRITE - CAS #7632-00-6**

**WATER - CAS #7732-18-5**

**SODIUM GLUCOHEPTONATE - CAS #13007-85-7**

**POTASSIUM HYDROXIDE - CAS #1310-58-3**

**POLYOXYETHYLENE - POLYOXYPROPYLENE BLOCK COPOLYMER CAS# 9003-11-6**

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**XVI. OTHER INFORMATION**

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THE INFORMATION IN THIS MSDS RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED OTHER THAN AS RECOMMENDED BY DIVERSEY LEVER OR IN COMBINATION WITH OTHER MATERIALS. IT IS THE USER'S RESPONSIBILITY TO EVALUATE THE APPLICABILITY OF THIS INFORMATION FOR HIS PARTICULAR CONDITIONS OF STORAGE, HANDLING AND USE.