

## MATERIAL SAFETY DATA SHEET

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|   | Product Name EPOCH  |   |                |                        | Emergency (800)831-9889        |  |             |  |  |
|---|---|---|----------------|------------------------|--------------------------------|--|-------------|--|--|
| I<br>Chemical Product                               | Product Code <b>09291100</b> UPC-A <b>774205552410</b> SCC  |   |                | Medical(Collect)       | Medical(Collect) (303)592-1024 |  |             |  |  |
|   | Manufacturer JOHNSONDIVERSEY INC. 3630 E. KEMPER RD   |   |                | Chemtree (800)424-9300 |                                |  |             |  |  |
| and Company Indentification                         |   |   |                | Date 03/10/1999        |                                |  |             |  |  |
|   |   | CINCINNATI, OH 45241-2046                 | ~              | _                      |                                |  |             |  |  |
|   | Chemical Family   | ALKALINE LIQUID MACHINE DETER             | 1              |                        |                                |  |             |  |  |
| II<br>Composition/<br>Information<br>on Ingredients |   | Hazardous Ingredient  DROXIDE (1310-58-3) | %<br><b>20</b> | Exposur<br>TLV C 2     | e Limits<br>2; PEL C 2         |  | Units MG/M3 |  |  |
| III   | Signs CORROSIVE TO SKIN AND EYES MISTS ARE CORROSIVE TO SKIN, EYES AND RESPIRATORY TRACT                                    |   |                |                        |                                |  |             |  |  |
|   | and T E Symptoms  |   |                |                        |                                |  |             |  |  |
|   | of H Exposure R O N 1 C C   |   |                |                        |                                |  |             |  |  |
| Hazards Identification                              | HMIS: Health 3 Flammability 0 Reactivity 0 Personal Protection D  |   |                |                        |                                |  |             |  |  |
|   | Conditions Aggravated SENSITIVE SKIN, EYES  |   |                |                        |                                |  |             |  |  |
|   | Carcinogen Info NONE NTP IARC OSHA  |   |                |                        |                                |  |             |  |  |
|   | Target Organs or System   |   |                |                        |                                |  |             |  |  |
|   | Routes of Exposure: Inhalation X Skin Ingestion X   |   |                |                        |                                |  |             |  |  |
|   | Inhalation IF INHALED, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION.  |   |                |                        |                                |  |             |  |  |
| IV  | Eyes FLUSH THOROUGHLY WITH FRESH WATER, FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.                                     |   |                |                        |                                |  |             |  |  |
| First Aid Measures                                  | Skin FLUSH WITH FRESH WATER FOR 15 MINUTES, WASH WITH SOAP AND WATER REMOVE CONTAMINATED CLOTHES AND SHOES                  |   |                |                        |                                |  |             |  |  |
|   | Ingestion GIVE WATER, DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. |   |                |                        |                                |  |             |  |  |
| V   | Fire Control WEAR FULL PROTECTIVE GEAR TO PREVENT SKIN CONTACT AND SCBA.  Measures/ Equipment                               |   |                |                        |                                |  |             |  |  |
|   | Flammable Propert   | lammable Property Info                    |                |                        |                                |  |             |  |  |
| Fire Fighting<br>Measures                           | Explosion Info NONE   |   |                |                        |                                |  |             |  |  |
|   | Extinguishing Media CO2, FOAM, DRY CHEMICALS  |   |                |                        |                                |  |             |  |  |
|   | Gases   |   |                |                        |                                |  |             |  |  |

| VI<br>Accidental Measures                    | Spill and Leak Clean UP Procedures  FLUSH SMALL AMOUNTS TO DRAIN AFTER NEUTRALIZATION WITH DILUTE ACIDS. COLLECT AND RETURN LARGE AMOUNTS TO CONTAINER. CERCLA RQ PRODUCT - POTASSIUM HYDROXIDE 5,000 POUNDS OR 555 GAL.       |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
|  | Environmental Precautions  |  |  |  |  |  |  |  |
|  | Ventilation Required? YES Instructions NO  |  |  |  |  |  |  |  |
| VII<br>Handling and<br>Storage               | Safe Storage, Handling and Use Instructions  DO NOT PRESSURE CONTAINER TO EMPTY. KEEP FROM FREEZING.  IF FROZEN, THAW AND MIX TO MAKE USABLE. KEEP AWAY FROM ACIDS.  |  |  |  |  |  |  |  |
|  | Imcompatible Materials   |  |  |  |  |  |  |  |
| VIII  Exposure Controls/ Personal Protection | Protective Gloves ALKALI RESISTANT WHEN HANDLING   |  |  |  |  |  |  |  |
|  | Eye Protection AS REQUIRED BY OSHA   |  |  |  |  |  |  |  |
|  | Respiratory NONE Protection  |  |  |  |  |  |  |  |
|  | Other Protective CLOTHING AND FOOTWEAR TO PREVENT SKIN CONTACT. Clothing Equipment   |  |  |  |  |  |  |  |
| IX Physical and Chemical                     | Characteristics o of Hazardous Chemcial  |  |  |  |  |  |  |  |
|  | Vapor Pressure 18.4 MmHg@ 20 °C Vapor Density(Air=1) N/A pH 12.7 Water Solubility 100 %  Appearance & Odor OPAQUE WHITE LIQUID, MILD ODOR  |  |  |  |  |  |  |  |
|  | Appearance & Odor OPAQUE WHITE LIQUID, MILD ODOR  Boiling Point 218 °F Melting Point °F Flammability Limits in Air By Volume: Upper NONE Lower NONE  |  |  |  |  |  |  |  |
| Properties                                   | Flash Point NONE °F Auto Ignition N/A °F Oxidizing Properties  |  |  |  |  |  |  |  |
|  | Specific Gravity 1.34 Volatile by Volume 75 %  |  |  |  |  |  |  |  |
|  | Evaporation Rate(n-Butyl Acetate=1) <1   |  |  |  |  |  |  |  |
|  | Peroxide, Pyrophoric, Unstable or Water Reactive NONE  |  |  |  |  |  |  |  |
| X  | Reactivity and Hazardous Polymerization NONE  Possible Hazardous Reactions   |  |  |  |  |  |  |  |
|  | Conditions to Avoid  |  |  |  |  |  |  |  |
| Stability and<br>Reactivity                  | Materials FLAMMABLE LIQUIDS, ACTIVE METALS, ORGANIC HALOGEN COMPOUNDS, To Avoid STRONG ACIDS CAUSE VIOLENT REACTIONS.  |  |  |  |  |  |  |  |
|  | Hazardous CO WITH INCOMPLETE Decomposition Products COMBUSTION.  |  |  |  |  |  |  |  |
| XI<br>Toxicological Information              |  |  |  |  |  |  |  |  |
| XII Ecological Information                   | Possible Effects and Environmental Fate  |  |  |  |  |  |  |  |
|  | Degradability  |  |  |  |  |  |  |  |
| Illormation                                  | Aquatic Toxicity  Method of USE UNTIL LESS THAN 1 INCH REMAINS IN CONTAINER, EMPTY CONTAINER   |  |  |  |  |  |  |  |
| XIII<br>Disposal<br>Consideration            | Disposal, Residues and Safe Handling  TRIPLE RINSE WITH WATER, ADD TO OPERATION REMOVE OR DEFACE LABEL BEFORE SELLING CONTAINER OR DISPOSAL CONTAINS PHOSPHATES CONSULT LOCAL OR STATE REGULATORS FOR HAZARDOUS WASTE DISPOSAL |  |  |  |  |  |  |  |
|  | Disposal of CO WITH INCOMPLETE COMBUSTION.   |  |  |  |  |  |  |  |
| XIV  | CORROSIVE LIQUID,BASIC,INORGANIC,N.O.S.,(POTASSIUM HYDROXIDE),8,UN3266,PG II,  |  |  |  |  |  |  |  |
| Transport Information                        | ERG#60, NAERG#154  |  |  |  |  |  |  |  |
| XV-Regulatory Information                    |  |  |  |  |  |  |  |  |
| S.A.R.A. Title III Section 313               | ALL CHEMICAL INGREDIENTS ARE LISTED ON THE TSCA INVENTORY.   |  |  |  |  |  |  |  |
| State<br>Right to Know<br>Information        | POTASSIUM HYDROXIDE - CAS #1310-58-3 WATER - CAS #7732-18-5 SODIUM TRIPOLYPHOSPHATE - CAS #7758-29-4 SODIUM POLYACRYLATE - CAS #9003-04-7 POLYALKOXY GLYCOL - CAS #9003-11-6   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |