# Material Safety Data Sheet

**Product Name:** LIQUID FACTOR I  
**Product Code:** 09894470  
**UPC-A:** 77426552137  
**SCC:**  
**Manufacturer:** JOHNSONDIVERSEY INC.  
3630 E. KEMPER RD  
CINCINNATI, OH 45241-2846  
**Emergency:** (800)831-9889  
**Medical/Collect:** (303)592-1024  
**Chemtrey:** (800)424-9300  
**Date:** 02/04/2002

## I. Chemical Product and Company Identification

### Chemical Name of Hazardous Ingredient

**NONE**

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<th>% Exposure Limits</th>
<th>Units</th>
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## II. Composition/Information on Ingredients

### Signs and Symptoms of Exposure

CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. INHALATION OF MIST MAY IRRITATE NOSE, THROAT, AND PULMONARY MEMBRANES.

### NO CHRONIC HAZARDS KNOWN.

### HMIS:

- **Health:** 2
- **Flammability:** 0
- **Reactivity:** 0

### Conditions Aggravated

SENSITIVE SKIN. MISTS MAY AGGRAVATE RESPIRATORY DISEASE.

### Carcinogen Info

NONE

### Target Organs or System

NTP | IARC | OSHA

### Routes of Exposure

- Inhalation: □
- Skin: □
- Ingestion: □

## IV. First Aid Measures

### Inhalation

IF INHALED, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF BREATHING IS DIFFICULT.

### Eyes

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

### Skin

FLUSH WITH FRESH WATER. REMOVE CONTAMINATED CLOTHES AND SHOES. IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION.

### Ingestion

GIVE WATER. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

### Fire Control Measures

WEAR FULL PROTECTIVE GEAR TO PREVENT SKIN CONTACT AND SELF-CONTAINED BREATHING APPARATUS.

### Flammable Property Info

### Explosion Info

PRODUCT WILL BURN IF EVAPORATED TO DRYNESS AND HEATED ABOVE FLAME POINT.

### Extinguishing Media

WATER, WATER FOG

### Gases
**VI**
Accidental Measures

- **Spill and Leak Cleanup Procedures**: CAUSES VERY SLIPPERY SURFACES IF SPILL. CONTAIN SPILL, MOP UP OR DILUTE WITH WATER, AND DISCHARGE TO A SANITARY SEWER SYSTEM. FOR LARGE AMOUNTS, MOP UP, PACKAGE, AND DISPOSE OF IN ACCORDANCE WITH LOCAL STATE AND FEDERAL REGULATIONS.

**VII**
Handling and Storage

- **Environmental Precaution**: NO REPORTABLE QUANTITY.

- **Ventilation Required**: NO

- **Safe Storage, Handling, and Use Instructions**: KEEP CONTAINER CLOSED. STORE AWAY FROM OPEN FLAME AND OTHER HEAT SOURCES. DO NOT STORE WITH FOOD.

- **Incompatible Materials**: STORE AWAY FROM ACIDS AND OXIDIZERS.

- **Protective Gloves**: CHEMICAL RESISTANT, RUBBER, OR PVC

- **Eye Protection**: SAFETY GLASSES WITH SIDE SHIELDS/SPILLA GOGGLES

- **Respiratory Protection**: USUALLY NOT REQUIRED, MONITOR AREAS FOR CONTAMINATION IF SYMPTOMS OF OVEREXPOSURE ARE EVIDENT.

- **Other Protective Clothing Equipment**: CHEMICALLY RESISTANT CLOTHING AND FOOTWEAR, SAFETY SHOWER AND EYE WASH IN USE AREA.

**IX**
Physical and Chemical Properties

- **Characteristics of Hazardous Chemical**:
  - **Vapor Pressure**: 17.5
  - **Mm-Hg @ 30 °C**: N/A
  - **Vapor Density [A; B]**: N/A
  - **pH**: 100
  - **Water Solubility**: 100 %
  - **Appearance & Odor**: CLEAR COLORLESS LIQUID, NO Odor
  - **Boiling Point**: 212 °F
  - **Melting Point**: 5 °F
  - **Flammability Limits in Air By Volume**: Upper NONE, Lower NONE
  - **Flash Point**: 450 °F
  - **Auto Ignition**: N/A
  - **Oxidizing Properties**: VVapor by Volume: <1 %
  - **Evaporation Rate [-Butyl Acetate]: <1

**X**
Stability and Reactivity

- **Peroxide, Pyrophoric, Unstable or Water Reactive**: STABLE

- **Reactivity and Hazardous Polymerization**: NONE

- **Possible Hazardous Reactions**: None

- **Conditions to Avoid**: None

- **Material to Avoid**: STRONG OXIDIZERS OR POWDERED CHLORINATED CLEANERS

- **Decomposition Products**: OXIDES OF CARBON AND SULFUR

**XI**
Toxicological Information

- **Possible Effects and Environmental Fate**: None

- **Degradability**: None

- **Aquatic Toxicity**: None

**XII**
Ecological Information

- **Method of Disposal and Residue Handling**: USE UNTIL LESS THAN ONE INCH REMAINS IN CONTAINER. EMPTY CONTAINER, TRIPLE RINSE CONTAINER WITH WATER. ADD TO OPERATION. REMOVE OR DEFACE CONTAINER LABEL, BEFORE SELLING OR DISPOSAL.

- **Disposal of Contaminated Material**: OXIDES OF CARBON AND SULFUR

**XIII**
Disposal Consideration

- **Environmental Regulations**: WASTE PROCESS SOLUTIONS MAY BE TOXIC TO AQUATIC LIFE. DO NOT DISCHARGE TO LAKES, STREAMS, FONDS.

**XIV**
Transport Information

- **Compliance Information**: COMPOUNDS, CLEANING, N.O.L., LIQUID

**XV Regulatory Information**

**XVI Other Information**

- **S.A.R.A. Title III Section 313**: NONE

- **Chemical Ingredients Listed on the TSCA Inventory**: WATER - CAS #7332-18-5

- **Potassium Chloride - CAS #7758-01-8

- **Linear Alcoholic Ether (Ethylene Glycol): CAS #1092-03-8

- **Ti dibromide - CAS #1271-86-5

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