
MATERIAL SAFETY DATA SHEET

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

REFRESH

MSDS ID: 02269

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: REFRESH

Product Code: 02269

Product Function: TEAT DIP

MANUFACTURER: JOHNSON DIVERSEY, INC.
3630 E. KEMPER ROAD
CINCINNATI, OH. 45241

EMERGENCY PHONE NUMBER: (800) 851-7145

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name(CAS Number)	%	Exposure Limits
IODINE (7553-56-2)	1.0	TWA 0.1, CEILING 1 MG/M3

3. HAZARDS IDENTIFICATION

Primary Routes of Entry

Inhalation: NO

Skin: YES

Ingestion: YES

4. FIRST AID MEASURES

Eyes: IMMEDIATELY FLUSH WITH PLENTY OF FRESH WATER. GET MEDICAL ATTENTION.

Skin: FLUSH WITH PLENTY OF WATER.

Ingestion: DRINK SEVERAL GLASSES OF WATER. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Inhalation: REMOVE TO FRESH AIR AND SEEK MEDICAL ATTENTION.

5. FIRE FIGHTING MEASURES

Flash Point (degrees F): NONE

Unusual Fire or Explosion Hazards: LOW FIRE HAZARD. MAY RELEASE IODINE FUMES IN FIRE AREA.

Extinguishing Media: WATER, WATER FOG

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

6. ACCIDENTAL RELEASE MEASURES

If Material is Released or Spilled:

WIPE UP SMALL AMOUNTS OR FLUSH TO SANITARY SEWER. COLLECT AND RETURN LARGE AMOUNTS TO CONTAINER. CAUSES SLIPPERY SURFACES. CLEAN AND WASH SPILL AREAS. NO CERCLA REPORTABLE QUANTITY HAS BEEN ESTABLISHED FOR THIS PRODUCT.

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7. HANDLING AND STORAGE

DO NOT PRESSURE CONTAINER TO EMPTY. KEEP FROM FREEZING. THAW AND MIX BEFORE USE. KEEP OUT OF THE REACH OF CHILDREN.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/Face Protection: SIDE SHIELD SAFETY GLASSES OR CHEMICAL GOGGLES
Protective Gloves: NONE, NEED DURING NORMAL USAGE
Respiratory Protection: USUALLY NOT REQUIRED.
Other Protective Clothing/Equipment: CLOTHING TO PREVENT PROLONGED SKIN CONTACT. EYE WASH IN USE AREA.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: BROWN LIQUID; SLIGHT IODINE ODOR
Boiling Point (F): 220 Freezing Point: Not Determined
Specific Gravity: 1.0300 pH: Not Determined
pH 1% SOLUTION: Not Determined
Volatile (% by Vol.): 92 Solubility in Water: 100

10. STABILITY AND REACTIVITY

Chemical Stability: STABLE
Incompatibility With Other Materials: METALS, SALTS, HEAT, OR REDUCING AGENTS
Hazardous Decomposition Products: TEMPERATURES ABOVE 140 DEGREES F WILL RELEASE IRRITANT IODINE VAPORS.
Hazardous Polymerization: None

11. TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure:
Acute: MILD EYE IRRITATION SKIN EFFECT: NOT AN IRRITANT. FREQUENT CONTACT MAY CAUSE EXFOLIATION OF DRY SKIN, INCLUDING CALLUSES. IS INGESTED.
Chronic: NO KNOWN HAZARDS
Medical Conditions Generally Aggravated by Exposure:
NONE

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

EMPTY CONTAINER. TRIPLE RINSE WITH WATER AND ADD RINSATE TO PROCESS. DEFACE LABEL BEFORE DISPOSING OR SELLING CONTAINERS. RECYCLE OR DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS. NOT A RCRA HAZARDOUS WASTE. CONTAINS BIODEGRADABLE DETERGENTS.

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14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:**CERCLA/EPCRA/313 Toxic Chemicals:****ALL CHEMICALS ARE ON THE TSCA INVENTORY.****CARCINOGENICITY:**

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

HMIS Ratings: Health: 1 Fire: 0 Reactivity: 0
Personal Protective Equipment: B

State Right-to-Know Information:

GLYCERINE - CAS #56-81-5

IODINE - CAS #7553-56-2

WATER - CAS #7732-18-5

CITRIC ACID - CAS #77-92-9

16. OTHER INFORMATION

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.