### I. Chemical Product and Company Identification
- **Product Name:** HALOX
- **Product Code:** 08527100
- **Manufacturer:** JOHNSONDIVERSEY INC.
  - 3630 E. KEMPER RD
  - CINCINNATI, OH 45241-2046
- **Emergency:** (800)831-9889
- **Medical (Collect):** (303)592-1024
- **Chemtree:** (800)424-9300
- **Date:** 12/15/1998
- **Chemical Family:** POWDERED CHLORINATED LAUNDRY BLEACH

### II. Composition/Information on Ingredients
<table>
<thead>
<tr>
<th>Chemical Name of Hazardous Ingredient</th>
<th>% Exposure Limits</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DICHLORO DIMETHYL HYDANTOIN (118-52-5)</td>
<td>&lt; 3.0 TLV 0.2; PEL 0.2</td>
<td>MG/M3</td>
</tr>
<tr>
<td>SODIUM SULFATE CAS#7757-80-6</td>
<td>&gt; 30</td>
<td>NOT ESTABLISHED</td>
</tr>
</tbody>
</table>

### III. Hazards Identification
- **Signs and Symptoms of Exposure:**
  - **Acute:** CAUSES MODERATE TO SEVERE EYE IRRITATION. PROLONGED CONTACT MAY CAUSE IRRITATION AND DRYING OF SKIN. MAY BE HARMFUL IF SWALLOWED. MISTS MAY IRRITATE NOSE, THROAT, AND PULMONARY MEMBRANES.
  - **Chronic:** SAME AS ACUTE

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

- **Conditions Aggravated:** SENSITIVE SKIN; DUST OR SPRAY MAY AGGRAVATE RESPIRATORY DISEASE.

- **Carcinogen Info:** NONE
  - NTP
  - IARC
  - OSHA

- **Target Organs or System:**

- **Routes of Exposure:**
  - Inhalation [ ]
  - Skin [ ]
  - Ingestion [ ]

### IV. First Aid Measures
- **Inhalation:** IF INHALED, REMOVE TO FRESH AIR.
- **Eyes:** IMMEDIATELY FLUSH THOROUGHLY WITH FRESH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.
- **Skin:** FLUSH WITH FRESH WATER. REMOVE CONTAMINATED CLOTHES AND SHOES. IF SKIN IRRITATION PERSISTS, GET MEDICAL ATTENTION.
- **Ingestion:** GIVE WATER. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

### V. Fire Fighting Measures
- **Fire Control Measures/Equipment:** WEAR FULL PROTECTIVE GEAR TO PREVENT SKIN CONTACT AND SELF-CONTAINED BREATHING APPARATUS.
- **Flammable Property Info:**
- **Explosion Info:** EXTREMELY HIGH TEMPERATURES COULD BREAK DOWN ORGANIC CHLORINE RELEASING AGENT.

- **Extinguishing Media:** FOAM, WATER
VI
Accidental Measures
Spill and Leak Clean UP Procedures
FLUSH SMALL AMOUNTS TO SANITARY DRAIN; COLLECT AND RETURN LARGE AMOUNTS TO CONTAINER. RINSE AREA WITH WATER.
CERCLA PRODUCT RQ = NO REPORTABLE QUANTITY.

Environmental Precautions:

VII
Handling and Storage
Safe Storage, Handling and Use Instructions
STORE IN COOL, DRY PLACE. KEEP COVER ON CONTAINER. KEEP AWAY FROM ACIDS. DO NOT STORE WITH FOOD. KEEP OUT OF THE REACH OF CHILDREN.

Incompatible Materials

VIII
Exposure Controls/Personal Protection
Protective Gloves
RUBBER, PVC, OR CHEMICAL RESISTANT

Eye Protection
SAFETY GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS

Respiratory Protection
USUALLY NOT REQUIRED. MONITOR AREA IF SYMPTOMS OF OVEREXPOSURE ARE EVIDENT.

Other Protective Clothing Equipment
CHEMICALLY IMPERVIOUS CLOTHING AND FOOTWEAR. SAFETY SHOWER AND EYE WASH.

IX
Physical and Chemical Properties
Characteristics of Hazardous Chemical
Vapor Pressure N/A MmHg@ °C
Vapor Density(Air=1) N/A
pH
Water Solubility 20 %
Appearance & Odor WHITE POWDER; STRONG CHLORINE ODOR

Boiling Point N/A °F
Melting Point N/A °F
Flammability Limits in Air By Volume: Upper NONE Lower NONE

Flash Point NONE °F
Auto Ignition N/A °F
Oxidizing Properties

Specific Gravity 65#F3
Evaporation Rate(n-Butyl Acetate=1) <1

X
Stability and Reactivity
Peroxide, Pyrophoric, Unstable or Water Reactive NONE
Reactivity and Hazardous Polymerization NONE
Possible Hazardous Reactions

Conditions to Avoid
CONCENTRATED MINERAL ACIDS RELEASE CHLORINE. DO NOT MIX WITH ACIDS, AMMONIA, OIL, AND LIQUID ORGANIC MATERIALS.

Hazardous Decomposition Products CHLORINE AND CHLORINATED ORGANIC VAPORS (METHYL CHLORIDE, PHOSGENE)

XI
Toxicological Information
Possible Effects and Environmental Fate
Degradability
Aquatic Toxicity

Method of Disposal, Residues and Safe Handling
USE UNTIL LESS THAN ONE INCH REMAINS IN CONTAINER, EMPTY CONTAINER, TRIPLE RINSE CONTAINER WITH WATER, ADD TO OPERATION, REMOVE AND DEFACE LABEL BEFORE SELLING OR DISPOSAL. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. MAY REQUIRED PH ADJUSTMENT. CONTAINS PHOSPHORUS. SOLUTIONS MAY BE TOXIC TO FISH OR AQUATIC LIFE.

XII
Ecological Information

XIII
Disposal Consideration

Disposal of Contaminated Material
CHLORINE AND CHLORINATED ORGANIC VAPORS (METHYL CHLORIDE, PHOSGENE)

XIV
Transport Information
OXIDIZING SUBSTANCES, SOLID, CORROSIVE, N.O.S., (DICHLORO DIMETHYL HYDANTOIN), 5.1, (8), UN3085, PG II, ERG NO. 60, NAERG NO. 141

XV
Regulatory Information
S.A.R.A.
Title III Section 313

SODIUM DICHLORODIMETHYLHYDANTOIN - CAS #118-52-5
SODIUM SULFATE - CAS #7757-82-6
SODIUM TRIPOLYPHOSPHATE - CAS #7758-29-4
PARAFFINIC HYDROCARBONS - CAS #64742-65-0

State Right to Know Information

ALL CHEMICAL INGREDIENTS ARE LISTED ON THE TSCA INVENTORY.

JohnsonDiversey Material Safety Data Sheet  HALOX - 08527100