

ESSENTIALS LOW TEMPERATURE DISHMACHINE DETERGENT

MSDS ID: FSA120952

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ESSENTIALS LOW TEMPERATURE DISHMACHINE DETERGENT

Product Descriptor: LOW TEMPERATURE DISHMACHINE DETERGENT

MANUFACTURER: JOHNSON DIVERSEY, INC. EMERGENCY PHONE NUMBER: (800)851-7145
3240 BENCHMARK DRIVE
LADSON, SC 29456-3861

II. HAZARDOUS COMPONENTS

Component Name	CAS Number	%	Exposure Limits	Units
POTASSIUM HYDROXIDE	1310-58-3	15 - 30%	TWA - C 2	MG/M3
SODIUM HYPOCHLORITE	7681-52-9	1 - 5%	None established	

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

DANGER. CORROSIVE, CAUSES EYE AND SKIN BURNS. HARMFUL OR FATAL IF SWALLOWED.

POSSIBLE ROUTES OF ENTRY: Eye contact. Skin contact. Inhalation.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

ACUTE: EYES: Corrosive. May cause permanent damage including blindness.

SKIN: Corrosive. May cause permanent damage. INGESTION:

Corrosive. May cause burns to mouth, throat and stomach.

INHALATION: May cause irritation and corrosive effects to nose, throat and respiratory tract.

CHRONIC: Same as acute effects.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Individuals with chronic respiratory disorders such as asthma, chronic bronchitis or emphysema, etc., may be more susceptible to irritating effects.

TARGET ORGAN(S) OF CHEMICAL HAZARD(S): Eyes, skin, respiratory tract, and gastrointestinal tract.

IV. FIRST AID MEASURES

EYES: Immediately flush eyes with running water for at least 15 minutes keeping eyelids open. Get medical attention immediately.

SKIN: Flush immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

INGESTION: Do not induce vomiting. Immediately drink one cupful of water or milk. Never give anything by mouth to an unconscious person. Get medical attention immediately.

INHALATION: If breathing is affected, remove to fresh air. Get medical attention immediately.

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V. FIRE FIGHTING MEASURES

FLASH POINT (degrees F): NONE FLAME EXTENSION: N/A
FLAMMABLE LIMITS IN AIR BY VOLUME: LEL: N/E UEL: N/E
UNUSUAL FIRE OR EXPLOSIVE HAZARDS: Burning or decomposition may form hydrogen chloride or other toxic gasses. Liquid produces hydrogen on contact with soft, active metals.
EXTINGUISHING MEDIA: Water spray, CO2, foam or dry powder.
FIRE FIGHTING INSTRUCTIONS: Wear full protective gear and positive pressure breathing apparatus (SCBA) in fire area.
SPECIAL INSTRUCTIONS: Spilled product may cause slippery surface and fall hazard.

VI. ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED OR SPILLED:
Contain spill. Wear protective clothing. Soak up or absorb liquid on suitable absorbent material. Collect and place in chemical waste container. Dispose of in accordance with local, State and Federal regulations. Flush spill area with water.
This product does not contain a reportable quantity (RQ) under CERCLA.

VII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: Avoid contact with eyes, skin and clothing. Do not taste or swallow. Avoid breathing vapors or spray mists. Use only with adequate ventilation. Remove and wash contaminated clothing and footwear before re-use. Wash thoroughly after handling. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. FOR COMMERCIAL & INDUSTRIAL USE ONLY. Keep container tightly closed. Protect from freezing. Store in a dry, cool and well-ventilated area. KEEP OUT OF REACH OF CHILDREN.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: Chemical splash goggles.
PROTECTIVE GLOVES: Chemical resistant gloves. Includes: Neoprene gloves.
RESPIRATORY PROTECTION: If mists/vapors are not adequately controlled by ventilation, use appropriate respiratory protection to avoid over exposure. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
OTHER PROTECTIVE CLOTHING/EQUIPMENT: If major exposure is possible, wear suitable protective clothing and footwear.
ENGINEERING CONTROLS:
VENTILATION: Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.

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IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear light yellow liquid, chlorine odor.

BOILING POINT (DEG F): >200

FREEZING POINT: <40

SPECIFIC GRAVITY/BULK DENSITY: 1.230

pH: >13

pH 1% SOLUTION: N/D

VOLATILE BY VOLUME: 70.8

SOLUBILITY IN WATER: Soluble

VAPOR PRESSURE(mmHg): 17.5 at 20 C

VAPOR DENSITY: 17.3

X. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Product stable.

INCOMPATIBILITY WITH OTHER MATERIALS: Acids; Ammonia; Oxidizing agents; Reducing agents; Soft metals

HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete combustion forms; hydrogen chloride, chlorine and chlorinated compounds; hydrogen gas

HAZARDOUS POLYMERIZATION: None known.

XI. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL TESTING: Toxicological testing has not been performed on the product. Listed below is the available toxicology test data for components of the product.

TOXICITY TEST DATA:

Potassium Hydroxide :

Acute Oral LD50 (rat) - 365 mg/kg (RTECS)

Acute Skin LD50 (rabbit) - 1260 mg/kg (MSI)

Sodium Hypochlorite:

Acute Oral LD50 (rat) - 2840 mg/kg (PTI)

XII. ECOLOGICAL INFORMATION

Toxicological testing has not been performed on the product. Listed below is the available toxicology test data for components of the product.

ECOTOXICITY TEST DATA:

Potassium Hydroxide:

Acute LC50 (96 hr.) (Pimephles promelas) - 179 mg/l

Acute LC50 (96 hr.) (Daphnia magna) - 60 mg/l

ENVIRONMENTAL FATE: No data available.

XIII. DISPOSAL CONSIDERATIONS

RCRA REGULATED: Product is considered to be D002 - Corrosive, if declared hazardous waste.

Spent or excess product is hazardous waste. Do not discharge to sewer or environment. Arrange disposal through a licensed disposal company or treat by special Waste Disposal Sheet. Recycle or dispose of containers by product labeling or governmental regulations.

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XIV. TRANSPORT INFORMATION

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

XV. REGULATORY INFORMATION

U.S. Federal Regulations:

TSCA: All ingredients in this product are on TSCA inventory.

HAPS: NONE

VOC CONTENT (EPA Method 24A): % VOC: 0 Lb/Gal VOC: 0

CERCLA/EPCRA:

Section 313 Toxic Chemicals:

NONE

SARA Section 311/312:

ACUTE: YES CHRONIC: YES FIRE: NO REACTIVITY: YES

SUDDEN RELEASE OF PRESSURE: NO

LISTED CARCINOGEN: None

NTP: NO IARC: NO OSHA: NO

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

PERSONAL PROTECTIVE EQUIPMENT: Not normally required.

NFPA RATING: HEALTH: 3 FIRE: 0 REACTIVITY: 1 SPECIAL: ALKALINE

STATE RIGHT-TO-KNOW INFORMATION:

WATER - CAS# 7732-18-5

POTASSIUM HYDROXIDE - CAS# 1310-58-3

SODIUM HYPOCHLORITE - CAS# 7681-52-9

SODIUM POLYACRYLATE - CAS# 9003-04-7

CALIFORNIA PROPOSITION 65:

None of the ingredients are on the California proposition 65 list.

XVI. OTHER INFORMATION

Disclaimer: The information contained in this material safety data sheet is based on the knowledge of this specific product and current national legislation. It applies to the product as sold, use dilutions may be less hazardous. 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 handling, and use.