
MATERIAL SAFETY DATA SHEET

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

LIQUID EC VC59**MSDS ID: 57412**

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: LIQUID EC VC59

Product Descriptor: LIQUID ALKALI EGG WASH DETERGENT

MANUFACTURER: JOHNSON DIVERSEY, INC.

EMERGENCY PHONE NUMBER: (800) 851-7145

3630 E. KEMPER ROAD

CINCINNATI, OH. 45241

II. HAZARDOUS COMPONENTS

Component Name	CAS Number	%	Exposure Limits	Units
POTASSIUM HYDROXIDE	1310-58-3	5 - 15%	TWA - C 2	MG/M3

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

CORROSIVE MATERIAL - Causes severe burns to skin and eyes. Harmful if swallowed. Do not contact eyes, skin or clothing. Avoid breathing any dust, spray mist or vapors in spill area. Wash thoroughly after handling product. Wear eye protection, clothing and footwear to prevent skin contact.

POSSIBLE ROUTES OF ENTRY: Inhalation and ingestion.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

ACUTE: **EYES:** Severe burns or irritation with pain, redness, swelling, and blurred or impaired vision. **SKIN:** Burns, blisters or rash with pain and swelling. **INGESTION:** Burns or irritation to mouth, throat with pain, nausea and vomiting. **INHALATION:** Spray or mist causes severe irritation with pain, choking, and breathing difficulty.

CHRONIC: Same as acute effects.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Dermatitis, sensitive skin, pulmonary function and asthma.

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

IV. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart to completely flush all chemicals from entire eye surface. Get immediate medical attention.

SKIN: Flush thoroughly with plenty of water. Wash with mild soap and water. Remove contaminated clothes and shoes and clean before reuse. Get medical attention for any painful, red or injured skin.

INGESTION: If swallowed, rinse mouth with water. Dilute by drinking several glasses of water. DO NOT induce vomiting. If patient vomits, rerinse mouth. Get immediate medical attention. NOTE: Never give fluids by mouth to an unconscious person.

INHALATION: If inhaled, move to fresh air. If patient is not breathing, give artificial respiration. If breathing is difficult, give oxygen under the direction of trained personnel or a physician. Get

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IV. FIRST AID MEASURES (Cont.)

immediate medical attention.

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: Toxic fumes or vapor may form during fire.
Liquid produces hydrogen on contact with soft, active metals.
EXTINGUISHING MEDIA: Water, 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.
The Reportable Quantity (RQ) of Potassium Hydroxide CAS #1310-58-3 is 627
gallons or 1,000 lbs.

VII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: STRONG CAUSTIC PRODUCT. Wear protective
gear when using or handling. Product freezes below 50 deg. F. Thaw by
warming to 70 deg. F and mix for use. Add product slowly with mixing to water
or liquids to avoid heat, steam and spattering. Do not allow product to
collect on bottom of tank to prevent violent reaction. Do not pressurize
container to empty.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: Chemical goggles if contact or splash hazard exists.
Face shields.
PROTECTIVE GLOVES: Alkali resistant.
RESPIRATORY PROTECTION: Product does not have any established exposure limits.
NIOSH/MSHA approved respirator recommended in enclosed or confined spaces
where high air concentration or long exposure may occur.
OTHER PROTECTIVE CLOTHING/EQUIPMENT: Rubber boots and chemical resistant apron
if contact or splash hazard exists. Eyewash and safety shower in area if
contact or splash hazard exists.
ENGINEERING CONTROLS:
VENTILATION: Good general ventilation should be sufficient to control airborne
levels.

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IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear liquid, no odor.

BOILING POINT (DEG F): 320 F	FREEZING POINT: 15 F
SPECIFIC GRAVITY/BULK DENSITY: 1.26	
pH: 13 - 14	pH 1% SOLUTION: 12.6%
VOLATILE BY VOLUME: 69%	
SOLUBILITY IN WATER: Soluble	
VAPOR PRESSURE(mmHg): 17.5 at 20C	VAPOR DENSITY: 17.3

X. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Product stable.
INCOMPATIBILITY WITH OTHER MATERIALS: Acids; Soft metals; Organic halogens;
Flammable liquids
HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete combustion forms; oxides of
phosphorus; oxides of carbon
HAZARDOUS POLYMERIZATION: None known.

XI. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: 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 Tripolyphosphate:

Acute Oral LD50 (rat) 4100 mg/kg

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: NO FIRE: NO REACTIVITY: NO

SUDDEN RELEASE OF PRESSURE: NO

LISTED CARCINOGEN: None

NTP: No IARC: No OSHA: No

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

PERSONAL PROTECTIVE EQUIPMENT: D

NFPA RATING: HEALTH: 3 FIRE: 0 REACTIVITY: 0 SPECIAL: Alkali

STATE RIGHT-TO-KNOW INFORMATION:

WATER - CAS #7732-18-5

POTASSIUM HYDROXIDE - CAS #1310-58-3

SODIUM TRIPOLYPHOSPHATE - CAS #7758-29-4

POTASSIUM POLYACRYLATE - CAS #25608-12-2

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.