

CONFIDENCE 41 C

MSDS ID: 04883

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: CONFIDENCE 41C

Product Descriptor: BOILER WATER TREATMENT

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
DIETHYLAMINO ETHANOL	100-37-8	1 - 5%	TWA 10 (skin)	PPM
POTASSIUM HYDROXIDE	1310-58-3	5 - 15%	TWA - C 2	MG/M3
SODIUM HYDROXIDE	1310-73-2	1 - 5%	TLV-C 2	MG/M3

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

CORROSIVE - Contains strong alkali. Causes severe burn to skin and eyes. May be fatal if swallowed. Do not contact eyes, skin or clothing. Wear goggles, face shield, rubber gloves, and protective clothing and boots when handling product. Avoid breathing dust or spray mist. Contain spill or runoff, which may cause environmental damage. Contact with aluminum or soft metals may release flammable hydrogen fumes.

POSSIBLE ROUTES OF ENTRY: All Routes of Entry/Exposure

SIGNS AND SYMPTOMS OF OVEREXPOSURE

ACUTE: EYES: Severe burns, tissue damage, or irritation with pain, swelling, blurred or impaired vision, blindness. SKIN: Severe burns, tissue destruction, blisters or rash with swelling and pain. INGESTION: May be fatal. Severe burns to mouth and throat may result with pain, gastric perforation and difficulty in swallowing or breathing. INHALATION: Spray or mists cause burns or severe irritation to nose, throat and respiratory tract with pain, choking, and experience difficulty in breathing.

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

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IV. FIRST AID MEASURES (Cont.)

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 immediate medical attention.

V. FIRE FIGHTING MEASURES

FLASH POINT (degrees F): N/A FLAME EXTENSION: N/A
FLAMMABLE LIMITS IN AIR BY VOLUME: LEL: NONE UEL: NONE
UNUSUAL FIRE OR EXPLOSIVE HAZARDS: Toxic fumes or vapor may form during fire.
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:
Confine spilled product to prevent environmental contamination. Keep out of storm sewers or surface waters. Small amount should be swept or mopped up and used for related cleaning tasks where possible. Larger amounts should be absorbed on vermiculite, clay, etc., and disposed in accordance with local, State and Federal regulations.
This product does not contain a reportable quantity (RQ) under CERCLA.

VII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: Store in a cool, dry area, keep away from acids. Keep container closed when not in use. Wear protective gear when handling or using. Do not pressurize container to empty.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: 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: Wear chemical resistant apron when handling. Eyewash and safety shower in area if contact or splash hazard exists.
ENGINEERING CONTROLS:
VENTILATION: Good general ventilation should be sufficient to control airborne

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VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION (Cont.)

levels.

IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Amber liquid, mild amine odor.

BOILING POINT (DEG F): 215

FREEZING POINT: 0 C

SPECIFIC GRAVITY/BULK DENSITY: 1.15

pH: 14.07

pH 1% SOLUTION: 11.9

VOLATILE BY VOLUME: 83.6

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

HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete combustion forms; oxides of sulfur; oxides of nitrogen; oxides of carbon

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 Hydroxide:

Acute Oral LD50 (rat) 500 mg/kg (RTECS)

Acute Skin LD50 (rabbit) 1350 mg/kg (MSI)

Diethylamino ethanol:

Intraperitoneal LD50 (rat) 1220 mg/kg

Dermal LD50 (rabbit) 1260 mg/kg

Dermal LD50 (Guinea pig) 1000 mg/kg

Oral LD50 (rat) 1300 mg/kg

Intraperitoneal LD50 (mouse) 1561 mg/kg

Intramuscular LD50 (mouse) 416 mg/kg

Subcutaneous LD50 (mouse) 308 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

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XII. ECOLOGICAL INFORMATION (Cont.)

Diethylamino Ethanol:

LC50 (96 hr) (Pimephales promelas) 1780 mg/l

ENVIRONMENTAL FATE: No data available.

XIII. DISPOSAL CONSIDERATIONS

RCRA REGULATED: CONCENTRATED PRODUCT WOULD BE CONSIDERED 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.

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: 2.67 Lb/Gal VOC: 0.255

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: ALKALINE

STATE RIGHT-TO-KNOW INFORMATION:

POTASSIUM HYDROXIDE - CAS #1310-58-3

SODIUM HYDROXIDE - CAS #1310-73-2

WATER - CAS #7732-18-5

SODIUM SULFITE - CAS #7757-83-7

DIETHYLAMINO ETHANOL - CAS #100-37-8

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 legisla-
tion. 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

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XVI. OTHER INFORMATION (Cont.)

materials or in a process. It is the user's responsibility to evaluate the handling, and use.