

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: **3-D**

Printing Date: 12/15/2015

Product Use: Neutral Detergent, Disinfectant, Deodorant.

Company Identification:

US Headquarters

ORCHEM CORPORATION

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Cincinnati, Ohio 45212

General Information

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**2. HAZARDS IDENTIFICATION**

**CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**

Acute toxicity, oral (Category 4), H302

Skin corrosion (Category 1B), H314

Serious eye damage (Category 1), H318

**PICTOGRAM:**



**SIGNAL WORD:** DANGER

**HAZARD STATEMENTS – LABEL ELEMENTS**

**Health Hazard Statement(s)**

H302

Harmful if swallowed.

H314

Causes severe skin burns and eye damage.

H318

Causes serious eye damage.

**Physical Hazards Statement(s)**

None.

**Precautionary Statement(s) – Prevention**

P260

Do not breathe dust, fume, gas, mist, vapors, and spray.

P264

Wash skin and contaminated clothing thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P280

Wear protective gloves, eye protection, face protection.

**Precautionary Statement(s) – Response**

P301 + P330 + P331

IF SWALLOWED: Rinse mouth. No NOT induce vomiting.

P303 + P361 + P353 + P363

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.

P304 + P340

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER or doctor.

**Precautionary Statement(s) – Storage**

P405

Store locked up.

**Precautionary Statement(s) – Disposal**

P501

Dispose of contents/container in accordance with applicable local, regional, national, and/or international regulations.

**Hazards Not Otherwise Classified (HNOC)**

None.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

INGREDIENT(S)	CAS#	WEIGHT %
alkyl dimethyl benzyl ammonium chloride (C <sub>12-16</sub> )	68424-85-1	2.22
octyl decyl dimethyl ammonium chloride	32426-11-2	1.66
dioctyl dimethyl ammonium chloride	5538-94-3	0.83
didecyl dimethyl ammonium chloride	7173-51-5	0.83
ethanol	64-17-5	0.6-1.4

<1% of mixture consists of ingredients of unknown toxicity. Exact percentages are withheld as trade secrets.

**4. FIRST AID MEASURES**

**EYE CONTACT:** Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. After 15 minutes check for and remove any contact lenses. Continue to rinse for at least 15 minutes.

**SKIN CONTACT:** Get medical attention immediately. Wash with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Destroy contaminated shoes.

**INHALATION:** Get medical attention immediately. Remove from exposure and move to fresh air immediately and keep in position comfortable for breathing. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

**INGESTION:** Get medical attention immediately. Do NOT induce vomiting. If victim is conscious and alert, wash out mouth with water then give water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously keep airway clear.

**NOTES TO PHYSICIAN:** Treat symptomatically and supportively.

**5. FIRE FIGHTING MEASURES**

**GENERAL INFORMATION:** Product does not support combustion. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (Approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion involved in a fire. Use water spray to keep fire exposed container cool.

**EXTINGUISHING MEDIA:** Use media suitable to the cause of the surrounding fire. Do NOT use straight streams of water.

**6. ACCIDENTAL RELEASE MEASURES**

**In Case of Spill or Other Release:** Remove sources of ignition. Ventilate area. Use appropriate personal protective equipment as indicated in Section 8 of the SDS when risk assessment indicated this is necessary. Use non-sparking tools and equipment. Dike to prevent spread. Absorb with inert material. Sweep or shovel spilled materials in suitable containers. Dispose of in accordance with all local, state, and federal requirements. Do not allow product or residue to enter waterway or any source of drinking water.

## 7. HANDLING AND STORAGE

**Handling:** Use appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation.

**Storage:** Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool, and well ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Protect from freezing.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower (ANSI Z358.1). Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

COMPONENT	CAS#	ACGIH TLV	OSHA PEL	NIOSH
ethanol	64-17-5	STEL: 1000ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>

### PERSONAL PROTECTIVE EQUIPMENT

**Eyes:** Wear chemical splash goggles that meet the requirements of 29 CFR 1910.133 or European Standard EN 166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure (29 CFR 1910.138 or EN374).

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

**General Hygiene Considerations:** Wash hands and any exposed skin thoroughly after handling. See 29 CFR 1910.132-138 for further guidance.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance:	Clear
Color:	Red
Odor:	Fresh
Boiling Point/Range:	No Data
Freezing Point/Range:	No Data
Flash Point:	None to 100°C (COC)
Phosphorous Content as %P:	None
Vapor Pressure:	No Data
Vapor Density (air=1):	No Data
V.O.C.:	1% estimated
Specific Gravity (water=1):	~ 1.0
Water Solubility:	100%
pH:	6.5 – 10.5
Volatility:	No Data
Evaporation Rate:	No Data

## 10. STABILITY AND REACTIVITY

**Stability:** The product is stable.

**Incompatibility with Various Substances:** Reactive or incompatible with the following materials: oxidizing materials.

**Hazardous Polymerization:** Under normal conditions of storage and use, hazardous polymerization will not occur.

**Hazardous Decomposition Products:** Decomposition products may include the following materials: carbon dioxide, carbon monoxide, and other toxic vapors.

## 11. TOXICOLOGICAL INFORMATION

### TOXICITY:

Product/Ingredient Name	CAS#	Oral LD50	Dermal LD50	Inhalation LC50
alkyl dimethyl benzyl ammonium chloride (C <sub>12-16</sub> )	68424-85-1	430 mg/kg	3560 mg/kg	---
octyl decyl dimethyl ammonium chloride	32426-11-2	238 mg/kg	3342 mg/kg	---
dioctyl dimethyl ammonium chloride	5538-94-3	238 mg/kg	3342 mg/kg	---
didecyl dimethyl ammonium chloride	7173-51-5	238 mg/kg	3342 mg/kg	---
ethanol	64-17-5	7060 mg/kg	---	117-125 mg/l, 4 hr

### CARCINOGENICITY:

Product/Ingredient Name	ACGIH	IARC	NTP
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### Information On Likely Routes of Exposure

**Inhalation:** May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

**Skin contact:** Causes severe burns.

**Eye contact:** Causes serious eye damage.

**Ingestion:** Toxic if swallowed. Causes digestive tract burns.

**Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:** Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage could result.

## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY:

Product/Ingredient Name	CAS#	Algae EC50	Fish LC50	Microorganisms	Crustacea NOEC
ethanol	64-17-5	675 mg/L, 72h	Fathead Minnow 14200 mg/L, 96h	---	Daphnia magna 9.6 mg/L, 96h

**Persistence and Degradability:** No information available.

**Bioaccumulation:** No information available.

**Other Adverse Effects:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. U.S. EPA guidelines for the classifications are listed in 40 CFR 261.3.

Collect and reclaim or dispose in sealed containers at a licensed waste disposal site. Since emptied containers or liners may retain product residue, follow label warnings even after container is emptied. Do not allow this material to drain into sewer/water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

## 14. TRANSPORTATION INFORMATION

**U.S. DOT Bill of Lading Description:** UN 1903, disinfectant, liquid, corrosive, N.O.S. (Quaternary Ammonium Compound), 8, III

**49 CFR § 173.154 (Exemption):** This product can ship as a "consumer commodity" and reclassified as "ORM-D" if packaged in < 1.3 gallons (5.0 Liter) containers. (Non Hazardous)

## 15. REGULATORY INFORMATION

### INTERNATIONAL INVENTORIES

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL).

### U.S. REGULATIONS

**CALIFORNIA PROPOSITION 65:** This product contains ethanol, a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

### STATE RIGHT TO KNOW (RTK)

INGREDIENT(S)	CAS#	MA	NJ	PA	MN
ethanol	64-17-5	X	X	X	X

### CERCLA/SARA 302/304

INGREDIENT(S)	CAS#	WEIGHT %	CERCLA/SARA RQ(LBS)	SECTION 302TPQ (LBS)
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### SARA 311/312 Hazard categories

Immediate:	X
Delayed:	---
Fire:	---
Reactivity:	---
Sudden Release of Pressure:	---

### SARA 313:

None.

#### Clean Air Act:

Not regulated.

#### Clean Water Act:

Not regulated.

### FIFRA Information

**EPA Pesticide Registration Number:** 10324-113-48062

**EPA Statement:** This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label.

EPA Pesticide Label: DANGER. Keep out of reach of children. Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, inhaled, or absorbed through the skin or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap or water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash clothing before reuse.

## 16. OTHER INFORMATION

Hazardous Material Information System (U.S.A.)	Health: 3	Flammability: 0	Physical Hazard: 0
National Fire Protection Association (U.S.A.)	Health: 3	Flammability: 0	Instability: 0

**HMIS and NFPA use a numbering scale ranging from 0-4 to indicate the degree of hazard. A value of 0 means that the substance possesses essentially no hazard; a rating of 4 indicates high hazard.**

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**Prepared by:** Compliance Group

The information contained in this Safety Data Sheet is intended to comply with the requirements of 29 CFR 1910.1200. This information is believed to be accurate and based on data available to ORCHEM CORPORATION at this time. It is intended to be used as a guide to the safe handling and use by properly trained individuals. It is the end user's responsibility to determine the suitability of the information for their particular purposes. This information is provided without warranty.