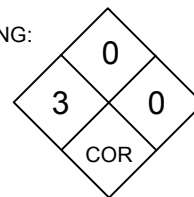




NFPA RATING:

4=Severe  
3=Serious  
2=Moderate  
1=Slight  
0=Minimal



**MATERIAL SAFETY DATA SHEET**

**1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

PRODUCT NAME: **7909**  
 PRODUCT DESCRIPTION: *Microbiocide*

COMPANY INFORMATION:  
**Chemicals Inc.**  
 13560 Colombar Court  
 Fontana, California 92337  
 Non-emergency: 951-681-9697

Revised: August 7th, 2012

**24-HOUR EMERGENCY TELEPHONE:**  
 INFOTRAC: 1-800-535-5053  
 INTERNATIONAL#: 1-352-323-3500

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:**

Clear, yellow liquid  
 Mild odor  
**DANGER:** May cause burning of eyes and irritation of skin. Harmful if swallowed or absorbed through skin. May cause severe irritation to mouth, throat, esophagus and stomach. Avoid contact. Wear splash goggles, gloves and protective apron when handling. Wash thoroughly after handling.

\*\*\* In the event of incident, please refer to Emergency Response Guide 154. \*\*\*

**POTENTIAL HEALTH EFFECTS**     Eye contact     Skin contact     Ingestion     Inhalation

**EYE CONTACT:** Exposure to liquid product may cause severe irritation to eyes, and possibly burns or eye damage. Symptoms of exposure may include redness, swelling, tearing or pain. Avoid contact.

**SKIN CONTACT:** Exposure to liquid product may cause moderate to severe irritation to skin, and possible burns. Symptoms of exposure may include redness, itching, swelling or pain. Avoid contact.

**INGESTION:** Exposure to liquid product may cause moderate to severe irritation to inner linings of mouth, esophagus and gastrointestinal tract, and possible burns. Harmful if swallowed. Do NOT ingest.

**INHALATION:** Inhalation of vapors or fumes may be irritating to mucous membranes and respiratory tract; however, inhalation is not believed to be a likely route of exposure. Avoid contact.

**CHRONIC:** Unknown.

**CARCINOGENS:** This product and its components are not listed on NTP, IARC, OSHA or ACGIH lists as cancer-causing agents.

**AGGRAVATION OF PRE-EXISTING CONDITIONS:** Unknown.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

COMPONENT	CAS #	HAZARD	WT %	ACGIH		OSHA	
				TLV <sub>(TWA)</sub>	STEL	PEL <sub>(TWA)</sub>	STEL
Sodium hydroxide (NaOH) *	1310-73-2	Corrosive	< 10	NE	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	NE
Halogenated complex	NDA	NDA	18	NE	NE	NE	NE

\* NIOSH Immediately Dangerous to Life or Health concentration (IDLH) for sodium hydroxide is 10 mg/m<sup>3</sup>.

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous and/or present at amounts below reportable limits.

#### 4. FIRST AID MEASURES

**EYE CONTACT:** If this product contacts the eyes, immediately flush eyes with plenty of clean running water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if worn. Get medical attention.

**SKIN CONTACT:** If this product contacts the skin, immediately flush the affected area with soap and water for at least fifteen (15) minutes. If the product penetrates the clothing, promptly remove the contaminated clothing or shoes, and flush the affected area as described. Get medical attention.

**INGESTION:** If this product is ingested, give the exposed person two (2) glasses of water and seek medical attention promptly. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. If the exposed person is not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.

**NOTES TO PHYSICIAN:** Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

#### 5. FIRE FIGHTING MEASURES

**FLASH POINT:** NA  
**FLAMMABLE LIMITS:** NA  
**AUTOIGNITION TEMPERATURE:** NA

**EXTINGUISHING MEDIA:** Use water, foam, dry chemical or carbon dioxide to extinguish fire.

**FIRE/EXPLOSION HAZARD:** Irritating vapors may be emitted during a fire. Avoid breathing fumes.

**FIRE FIGHTING EQUIPMENT:** Fire fighters should wear full protective equipment, including a self-contained breathing apparatus.

**SPECIAL PROCEDURES:** Use water to cool containers exposed to a fire.

**HAZARDOUS COMBUSTION PRODUCTS:** May evolve hydrogen bromide, bromine, HCl, chlorine and oxides of nitrogen under fire conditions. Contact with reactive metals may result in hydrogen gas.

#### 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Use proper personal protection (refer to Section 8).

**ENVIRONMENTAL PRECAUTIONS:** Run off from fire control or dilution water may cause pollution. Keep out of drains, municipal sewers, open bodies of water and water course.

**CLEAN-UP METHODS:** Safely stop source of spill. Clean up spills immediately. Restrict non-essential personnel from the area. Wear protective clothing, goggles and respirator if ventilation is not adequate. Dike spill area. For small spills, dilute with water and use a dehalogenating agent such as sodium thiosulfate solution. For large spills, squeegee and collect the spillage or vacuum the spillage. Soak up spill residue with dry chemical absorbent. Place into containers for reuse or disposal. Dispose according to local, state or federal regulations at an approved chemical waste reprocessing facility.

## 7. HANDLING AND STORAGE

**HANDLING:** Use proper personal protection when handling (refer to Section 8). Use under well-ventilated conditions. Avoid contact with eyes, skin and clothing. Avoid breathing vapors and mists. Avoid prolonged or repeated contact. Do NOT ingest. Wash thoroughly after handling. Rinse container before disposal.

**SHELF LIFE:** Product retains 95% of original activity for about one year at normal ambient conditions when properly stored in original containers and protected from light.

**STORAGE TEMPERATURE:** The recommended storage temperature is above 32°F, preferably at room temperature (70°F). Precautions should be taken to ensure that the average temperature of the product is maintained below 111°F.

**GENERAL:** Store closed containers in a cool, dry, well-ventilated area away from incompatible materials. Avoid freezing, extreme heat and direct sunlight. Due to build-up of pressure over time, this product is supplied in vented containers. Product should be stored in opaque containers to prevent exposure to light. This product is stable under normal conditions of handling and storage.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

Please refer to Section 2 for applicable exposure limits.

**EYE PROTECTION:** To avoid contact with eyes, use chemical splash goggles or a face shield. Eye wash station should be available in the work area.

**HAND PROTECTION:** Use rubber or plastic gloves to minimize skin contact.

**BODY PROTECTION:** Use a rubber apron to minimize contact. Rubber boots are recommended. Full drench shower should be available in the work area.

**RESPIRATOR:** Use of respirator protection is not generally required. However, if exposure is above the stated limits or ventilation is inadequate, use a NIOSH approved acid gas/organic vapor respirator to reduce potential for inhalation exposure. When using respirator cartridges, they must be changed frequently to assure breakthrough exposure does not occur.

**VENTILATION:** General mechanical ventilation is recommended for enclosed areas.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear, yellow to orange liquid	<b>Boiling Point:</b>	106°C / 223°F
<b>Odor:</b>	Mild	<b>Freezing Point:</b>	- 6°C / 21°F
<b>Specific Gravity @ 68°F:</b>	~ 1.29 – 1.37	<b>Vapor Pressure:</b>	19 mmHg
<b>pH:</b>	> 12.4	<b>Vapor Density (air = 1):</b>	ND
<b>Water Solubility:</b>	Complete	<b>VOC Content:</b>	Non-volatile

## 10. STABILITY AND REACTIVITY

**GENERAL STABILITY:** This product is stable at ambient temperatures and atmospheric pressures.

**INCOMPATIBLE MATERIALS:** Alcohols, aldehydes, strong reducing agents, strong oxidizers, acids, ammonia-containing products and metals (steel, aluminum, iron, copper).

**HAZARDOUS POLYMERIZATION:** Hazardous polymerization is not expected to occur under normal temperatures and pressures.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Bromine and chlorine.

## 11. TOXICOLOGICAL INFORMATION

<b>Eye irritation:</b>	<b>Product 7909</b> Severe to corrosive
<b>Skin irritation:</b>	Severe to corrosive
<b>Inhalation irritation:</b>	None to slight
<b>Oral LD<sub>50</sub>:</b>	2491 mg/kg of body weight
<b>Dermal LD<sub>50</sub>:</b>	> 2000 mg/kg of body weight
<b>Inhalation LC<sub>50</sub>:</b>	> 20.37 mg/l
<b>Other toxicological data:</b>	Not a dermal sensitizer

## 12. ECOLOGICAL INFORMATION

	<b>Product 7909</b>
<b>96 hr LC<sub>50</sub>, Bluegill sunfish:</b>	3.8 mg whole material/l
<b>48 hr EC<sub>50</sub>, Daphnia magna:</b>	4.8 mg whole material/l
<b>96 hr IC<sub>50</sub>, Selenastrum capricornutum:</b>	2.6 mg whole material/l

## 13. DISPOSAL CONSIDERATIONS

<b>US EPA RCRA Status:</b>	This product is considered to be a hazardous waste.
<b>US EPA RCRA Hazardous waste code:</b>	NDA

Do NOT dump into any sewers, on the ground or into any body of water. Rinse containers before disposal. Since emptied containers contain product residue, follow label warnings even after container is emptied. Dispose in accordance with all applicable federal, state and local laws and regulations.

## 14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

### US DOT

<b>Proper Shipping Name:</b>	Corrosive Liquid, Basic, Inorganic, n.o.s., (Halogenated Complex, Sodium Hydroxide)
<b>Hazard Class:</b>	8
<b>Hazard Identification Number:</b>	UN3266
<b>Packing Group:</b>	PGIII
<b>Transport Label:</b>	Corrosive

## 15. REGULATORY INFORMATION

<b>Components:</b>	<b>7909</b>
<b><u>Carcinogenic Potential</u></b>	
<b>Regulated by OSHA:</b>	No
<b>Listed on NTP Report:</b>	No
<b>Listed by IARC / Group:</b>	No
<b>ACGIH Appendix A / Group:</b>	Not listed
<b><u>US EPA Release Reporting</u></b>	
<b>CERCLA (40 CFR 302):</b>	
<b>Listed substance:</b>	
Reportable quantity:	Sodium hydroxide 1000 lbs.
Category:	D
RCRA waste number:	D002
<b>Unlisted substance:</b>	
Reportable quantity:	NA NA

Characteristic: NA  
RCRA waste number: NA

**SARA TITLE III**

**Section 302 & 303** (40 CFR 355):

**Listed substance:** NDA  
Reportable quantity: NDA  
Planning threshold: NDA

**Section 311 & 312** (40 CFR 370):

Hazard categories: Acute  
Planning threshold: NDA

**Section 313** (40 CFR 372):

**Listed toxic chemical:** Not listed  
Reporting threshold: NA

**US TSCA**

**Listed/Exempt** (40 CFR 710): Yes

**CA PROP 65**

Carcinogen: Not Listed  
Reproductive toxin: Not Listed

**16. OTHER INFORMATION**

**HMIS Rating**

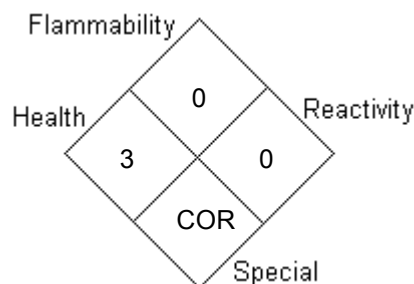
HEALTH	3
FLAMMABILITY	0
REACTIVITY	0
PROTECTION	C

C = Splash goggles, gloves, protective apron

**KEY**

4 = Severe ACID = Acid  
3 = Serious ALK = Alkali  
2 = Moderate COR = Corrosive  
1 = Slight OX = Oxidizer  
0 = Minimal W = Use NO WATER

**NFPA Rating**



**Legend:**

ACGIH: American Conference of Governmental Industrial Hygiene  
A1: Confirmed human carcinogen  
A2: Suspected human carcinogen  
A3: Confirmed animal carcinogen  
CAS #: Chemical Abstract Service Registry number  
CERCLA: Comprehensive Environmental Response Compensation and Liability Act  
DOT: Department of Transportation  
EPA: Environmental Protection Agency  
HMIS: Hazardous Materials Identification System  
IARC: International Agency for Research on Cancer  
Group 1: Carcinogenic to humans  
Group 2A: Probably carcinogenic to humans  
Group 2B: Possibly carcinogenic to humans  
Group 3: Unclassified as carcinogenic to humans  
NA or N/A: Not applicable  
ND: Not determined  
NDA: No data available

NE: Not established  
NFPA: National Fire Protection Association  
NIOSH: National Institute for Occupational Safety and Health  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible Exposure Limit  
RCRA: Resource Conservation and Recovery Act  
REL: Recommended Exposure Limit  
SARA TITLE III: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit (15 minute Time Weighted Average)  
TLV: Threshold Limit Value  
CEIL (C): Ceiling Exposure Limit  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average  
VOC: Volatile Organic Compound  
> / <: Greater than / Less than  
~: Approximately

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