



# SAFETY DATA SHEET

## SECTION 4: FIRST AID MEASURES

### DESCRIPTION OF FIRST AID MEASURES:

<b>EYES:</b>	Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician.
<b>SKIN:</b>	Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician. Remove contaminated clothing and shoes. Do not put contaminated clothing and shoes back on. Wash clothing and shoes thoroughly in soap and water; rinse repeatedly in clean water and dry before reuse.
<b>INGESTION:</b>	DO NOT INDUCE VOMITING. Give water. Call a physician. DO NOT give anything by mouth if the person is unconscious or if having convulsions.
<b>INHALATION:</b>	No specific treatment is necessary since the material is not likely to be hazardous by inhalation. If exposed to excessive levels of fume or dust, remove to fresh air and get medical attention if cough or other symptoms develop.
<b>PRIMARY ROUTE(S) OF ENTRY:</b>	Eyes, skin.

### MOST IMPORTANT SYMPTOMS / EFFECTS, ACUTE AND DELAYED:

<b>EYE CONTACT:</b>	Contacted areas may exhibit irritation.
<b>SKIN CONTACT:</b>	Contacted areas may exhibit irritation.
<b>INGESTION:</b>	May be harmful if swallowed.
<b>INHALATION:</b>	No hazard in normal industrial use. May cause nasal and respiratory irritation.
<b>CHRONIC SYMPTOMS:</b>	None expected under normal conditions of use.

### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

If you experience any of the symptoms / effects listed above seek medical advice.

## SECTION 5: FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA:

Use extinguishing media as appropriate for surrounding fire.

### SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Not considered flammable or explosive. Hazardous reactions will not occur under normal conditions. Will react with many metals liberating flammable hydrogen gas, which can form explosive mixtures with air.

### ADVICE FOR FIRE FIGHTERS:

Wear self-contained breathing apparatus and full protective clothing. Use water spray to keep containers cool.

**Hazardous Combustion Products:** Oxides of carbon, nitrogen and chlorine. Hydrogen gas may be released upon contact with certain metals.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:

Avoid all contact with skin, eyes and clothing. Wear safety eyewear to protect against unexpected splashes. Wear suitable protective clothing. Use NIOSH / MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Contain liquid spills with sand and absorb on inert material. Eliminate all ignition sources. Dispose with solid waste. See Waste Disposal Method. Do not discharge to sewers or waterways without proper treatment.

## SECTION 7: HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING:

Wear proper safety equipment when handling this product. Handle in accordance with good industrial hygiene and safety procedures.

### CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES:

Normal for acidic materials. Store away from alkalis and strong oxidizing agents. Keep container closed when not in use.

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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE GUIDELINES:** No ingredients identified by OSHA as hazardous are known to be present above de minimus levels.

**CHEMICAL IDENTITY**

Carbamide chloride

**CAS NO.**

506-89-8

**OSHA PEL**

N.E.

**ACGIH TLV**

N.E.

**ENGINEERING CONTROLS:**

As necessary to avoid inhalation and contact.

**INDIVIDUAL PROTECTION MEASURES:**

Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. The following information may be used to assist in PPE selection.

**RESPIRATORY PROTECTION:**

Not needed for normal use. In absence of proper environmental control, use NIOSH / MSHA approved inorganic acid vapor respirator for mists where airborne exposure is excessive.

**SKIN PROTECTION:**

Impermeable gloves. Other equipment as required to avoid contact.

**EYE PROTECTION:**

Safety eyewear to protect against unexpected splashes.

**GENERAL HYGIENE CONSIDERATIONS:**

Eyewash facility and emergency shower should be in close proximity. Always wash hands after handling any chemical.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Off-white liquid.
<b>ODOR:</b>	Mild.
<b>ODOR THRESHOLD:</b>	Not available.
<b>pH (100%):</b>	-0.5 – 0.0
<b>MELTING POINT/FREEZING POINT</b>	Not available.
<b>INITIAL BOILING POINT AND BOILING RANGE</b>	212°F (100°C)
<b>FLASH POINT (METHOD USED)</b>	Not available.
<b>EVAPORATION RATE</b>	1.0 (water = 1).
<b>FLAMMABILITY (SOLID, GAS)</b>	Not available.
<b>UPPER/LOWER FLAMMABLE OR EXPLOSIVE LIMIT</b>	Not available.
<b>VAPOR PRESSURE</b>	Not available.
<b>VAPOR DENSITY</b>	Not available.
<b>SPECIFIC GRAVITY</b>	1.13
<b>SOLUBILITY IN WATER</b>	Complete.
<b>PARTITION COEFFICIENT: N-OCTANOL/WATER</b>	Not available.
<b>AUTO-IGNITION TEMPERATURE</b>	Not available.
<b>VISCOSITY, DYNAMIC</b>	Not available.
<b>DECOMPOSITION TEMPERATURE</b>	Not available.
<b>VISCOSITY</b>	Not available.

## SECTION 10: STABILITY AND REACTIVITY

<b>REACTIVITY:</b>	Hazardous reactions will not occur under normal conditions.
<b>CHEMICAL STABILITY:</b>	Stable under recommended handling and storage conditions (see Section 7). Stable up to 230°F / 110°C.
<b>POSSIBILITY OF HAZARDOUS REACTIONS:</b>	Hazardous polymerization will not occur.
<b>CONDITIONS TO AVOID:</b>	Heating above 110°C results in an exothermic decomposition with rapid release of CO <sub>2</sub> gas.
<b>INCOMPATIBLE MATERIALS:</b>	Strong oxidizing agents.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Oxides of carbon, nitrogen and chlorine. Hydrogen gas may be released upon contact with certain metals.

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## SECTION 11: TOXOLOGICAL INFORMATION

ACUTE TOXICITY:	Not classified.
LD50 AND LC50 DATA:	Not available.
ROUTES OF EXPOSURE / SYMPTOMS	
EYES:	Contacted areas may exhibit irritation.
SKIN:	Contacted areas may exhibit irritation.
INGESTION:	May be harmful if swallowed.
INHALATION:	No hazard in normal industrial use. May cause nasal and respiratory irritation.
GERM CELL MUTAGENICITY:	Not classified.
TERATOGENICITY:	Not available.
CHRONIC EFFECTS / CARCINOGENICITY:	This material contains no ingredient above de minimus concentrations known or suspected to cause cancer.
SPECIFIC TARGET ORGAN TOXICITY (Repeated exposure):	Not classified.
REPRODUCTIVE TOXICITY:	Not classified.
SPECIFIC TARGET ORGAN TOXICITY (Single exposure):	Not classified.
ASPIRATION HAZARD:	Not classified.
COMPONENT INFORMATION:	
Carbamide chloride	LD50 Oral Rat: 1121 mg/kg LD50 Dermal: No data LC50 Inhalation: No data

## SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	LC50 <i>Ceriodaphnia dubia</i> : 149.83 mg/L/48hr
PERSISTENCE AND DEGRADABILITY:	Not available.
BIOACCUMULATIVE POTENTIAL:	Not available.
MOBILITY IN SOIL:	Not available.
OTHER ADVERSE EFFECTS:	This material contains no hazardous air pollutants (HAPS).

## SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD	Normal for acidic wastes. May require pH adjustment for neutralization. Dispose in accordance with local, state and federal regulations.
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## SECTION 14: TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME:	Compound, cleaning, NOI, liquid
HAZARD CLASS:	Not applicable.
IDENTIFICATION NUMBER:	Not applicable.
PACKING GROUP:	Not applicable.
EMERGENCY RESPONSE GUIDE:	Not applicable.

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## SECTION 15: REGULATORY INFORMATION

**VOC:** Less than 0.01 pounds per gallon (1 grams per liter).  
**TSCA STATUS** All ingredients are listed on the TSCA inventory.  
**CERCLA REPORTABLE QUANTITY** None established.

### SARA 311 / 312 HAZARD CLASSES

<input checked="" type="checkbox"/>	ACUTE HEALTH
<input type="checkbox"/>	FIRE
<input type="checkbox"/>	SUDDEN RELEASE OF PRESSURE
<input type="checkbox"/>	CHRONIC HEALTH
<input type="checkbox"/>	REACTIVE

### SARA 312 INFORMATION

Storage of 10,000 pounds or more may require filing a Tier 2 form. Threshold planning quantity for reporting is 10,000 pounds. This material is not an extremely hazardous substance (EHS).

### SARA 313 INFORMATION

This material contains the following substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372

### CHEMICAL NAME

None

### CATEGORY CODE

### CAS NUMBER

### % BY WEIGHT

### STATE REGULATORY INFORMATION

#### CALIFORNIA PROPOSITION 65

California has not identified the ingredients listed in Section 3 as known to cause cancer or reproductive toxicity.

## SECTION 16: OTHER INFORMATION

**SDS STATUS:** Revised sections 2, 3, 12, and 16 on 10-13-16.

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

**FOR INDUSTRIAL USE ONLY – KEEP OUT OF THE REACH OF CHILDREN**