



# Triple-2 Germicidal Cleaner

## Safety Data Sheet

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : Triple-2 Germicidal Cleaner  
Product code : 222

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Quat Germicidal Disinfectant

#### 1.3. Details of the supplier of the safety data sheet

Chemco Products Company  
6401 E. Alondra Blvd.  
Paramount, CA 90723 - USA  
T 866-243-6261 - F 562-602-2811  
<http://www.chemcoprod.com>

#### 1.4. Emergency telephone number

Emergency number : CHEMTEL: 800-255-3924

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Acute Tox. 2 (Inhalation) H330  
Skin Irrit. 2 H315  
Eye Dam. 1 H318  
Aquatic Acute 1 H400  
Aquatic Chronic 2 H411

Full text of hazard classes, H- and EUH-statements: see section 16

#### 2.2. Label elements

##### GHS US labelling

Hazard pictograms :



GHS05



GHS06



GHS09

Signal word :

Danger

Hazard statements :

Causes skin irritation.  
Causes serious eye damage.  
Fatal if inhaled.  
Very toxic to aquatic life.  
Toxic to aquatic life with long lasting effects.  
Do not breathe vapors, spray, mist.  
Wash hands and forearms thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Avoid release to the environment.  
Wear eye protection, protective gloves.  
IF ON SKIN: Wash with plenty of water.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER/doctor.  
Specific treatment (see the emergency and first aid section on this label).  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
Collect spillage.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.

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Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3. Hazard not otherwise classified (HNOC)

Other hazards which do not result in classification : No additional information available..

### 2.4. Unknown acute toxicity (GHS US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable.

(NOTE: If component displays the \* (asterisk) symbol, the following statement applies.)

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret.

Full text of H- and EUH-statements: see section 16

### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Alcohols, C-12-15, ethoxylated	(CAS-No.) 68131-39-5	1 – 5	Eye Dam. 1, H318
sodium carbonate	(CAS-No.) 497-19-8	1 – 5	Eye Irrit. 2A, H319
alkyl dimethyl benzyl ammonium chloride (C12-18)	(CAS-No.) 68391-01-5	1 – 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318
C12-C14-alkyl(ethylbenzyl)dimethylammonium chloride	(CAS-No.) 85409-23-0/68956-79-6	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ethanol	(CAS-No.) 64-17-5	0.1 – 1	Flam. Liq. 2, H225 Carc. 1A, H350

(NOTE: If component displays the \* (asterisk) symbol, the following statement applies.)

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact : If skin irritation or rash occurs: Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation persists, get medical attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

Symptoms/effects after skin contact : Causes skin irritation. May cause moderate irritation.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : FOLLOWING SYMPTOMS MAY APPEAR LATER: Gastrointestinal complaints. Irritation of the gastric/intestinal mucosa.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam. BC powder. Carbon dioxide. Dry chemical powder. Sand/earth.

Unsuitable extinguishing media : No unsuitable extinguishing media known.

### 5.2. Special hazards arising from the substance or mixture

Reactivity : Reacts with (some) halogen compounds.

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### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: No additional information available.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Isolate from fire, if possible, without unnecessary risk.
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#### 6.1.1. For non-emergency personnel

Protective equipment	: Protective goggles. Protective gloves. Protective clothing.
Emergency procedures	: Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with appropriate safety equipment.
Emergency procedures	: Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

For containment	: Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply.
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Wash down leftovers with plenty of water. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Restricted to professional users. Do not get in eyes, on skin, or on clothing. Do not breathe mist, vapors. Ensure good ventilation of the work station. Observe very strict hygiene - avoid contact. Obtain special instructions before use. Provide good ventilation in process area to prevent formation of vapor. Use personal protective equipment as required.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and forearms thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Comply with applicable regulations.
Incompatible products	: Strong acids. Oxidizing agent.
Storage area	: Store in a cool, dry well-ventilated area. Keep container tightly closed when not in use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No data available

ethanol (64-17-5)		
OSHA	OSHA PEL TWA	1900 mg/m <sup>3</sup>
OSHA	OSHA PEL TWA	1000 ppm

### 8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. In case of insufficient ventilation, wear suitable respiratory equipment.

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Other information	: Do not eat, drink or smoke during use.
Appropriate engineering controls	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Clear yellow
Odour	: Lemon
Odour threshold	: No data available
pH	: 11 – 12
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 201 °F
Relative evaporation rate (butylacetate=1)	: No data available
Flammability	: No data available
Explosive limits	: No data available
Vapour pressure	: No data available
Vapor density	: No data available
Specific Gravity @ 77° F	: 1.022 – 1.042
Solubility	: Soluble in water
Partition Coefficient n-Octanol-Water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available

#### 9.2. Other information

VOC content	: < 5 g/l CARB VOC
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reacts with (some) halogen compounds.

#### 10.2. Chemical stability

Stable under recommended conditions.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Oxidizers.

#### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity	: Not classified
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Triple-2 Germicidal Cleaner	
ATE US (gases)	100 ppmv/4h
ATE US (vapours)	0.5 mg/l/4h
ATE US (dust,mist)	0.05 mg/l/4h
sodium carbonate (497-19-8)	
LD50 oral rat	2800 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Experimental value)
ATE US (oral)	2800 mg/kg bodyweight

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alkyl dimethyl benzyl ammonium chloride (C12-18) (68391-01-5)	
LD50 oral rat	650 mg/kg
ATE US (oral)	650 mg/kg bodyweight

C12-C14-alkyl(ethylbenzyl)dimethylammonium chloride (85409-23-0/68956-79-6)	
LD50 oral rat	350 mg/kg
LD50 dermal rabbit	3000 mg/kg
ATE US (oral)	350 mg/kg bodyweight
ATE US (dermal)	1100 mg/kg bodyweight

ethanol (64-17-5)	
LD50 oral rat	10740 mg/kg bodyweight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rabbit	> 16000 mg/kg (Rabbit; Literature study)
ATE US (oral)	10740 mg/kg bodyweight

Alcohols, C12-15 , ethoxylated (68131-39-5)	
LD50 oral rat	> 200 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Skin corrosion/irritation	: Causes skin irritation. pH: 11 – 12
Serious eye damage/irritation	: Causes serious eye damage. pH: 11 – 12
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

ethanol (64-17-5)	
IARC group	1 - Carcinogenic to humans

Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects after skin contact	: Causes skin irritation. May cause moderate irritation.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: FOLLOWING SYMPTOMS MAY APPEAR LATER: Gastrointestinal complaints. Irritation of the gastric/intestinal mucosa.

## SECTION 12: Ecological information

### 12.1. Toxicity

sodium carbonate (497-19-8)	
LC50 - Fish [1]	300 mg/l (96 h; Lepomis macrochirus)
EC50 - Crustacea [1]	< 424 mg/l (48 h; Daphnia magna)
EC50 - Other aquatic organisms [1]	14 mg/l (168 h; Plankton)
LC50 - Fish [2]	740 mg/l (96 h; Gambusia affinis)
EC50 - Crustacea [2]	265 mg/l (48 h; Daphnia magna)
TLM - Fish [1]	300 ppm (96 h; Lepomis macrochirus)
TLM - Other aquatic organisms [1]	500 ppm (96 h; Daphnia magna)
Threshold limit - Algae [1]	242 mg/l (5 days; Algae)

ethanol (64-17-5)	
LC50 - Fish [1]	14200 mg/l (96 h; Pimephales promelas; Nominal concentration)
EC50 - Crustacea [1]	9300 mg/l (48 h; Daphnia magna)
LC50 - Fish [2]	13000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 - Crustacea [2]	10800 mg/l (24 h; Daphnia magna)
Threshold limit - Other aquatic organisms [1]	65 mg/l (72 h; Protozoa)

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<b>ethanol (64-17-5)</b>	
Threshold limit - Algae [1]	1450 mg/l (192 h; Microcystis aeruginosa; Growth rate)
Threshold limit - Algae [2]	5000 mg/l (168 h; Scenedesmus quadricauda; Growth rate)

<b>Alcohols, C12-15 , ethoxylated (68131-39-5)</b>	
LC50 - Fish [1]	1.2 mg/l (PISCES; ESTIMATED VALUE)
EC50 - Crustacea [1]	1.3 mg/l (ACTIVATED SLUDGE; ESTIMATED VALUE)
EC50 - Other aquatic organisms [1]	0.7 mg/l (ALGAE; ESTIMATED VALUE)
EC50 - Other aquatic organisms [2]	> 100 mg/l (ACTIVATED SLUDGE; ESTIMATED VALUE)

### 12.2. Persistence and degradability

<b>sodium carbonate (497-19-8)</b>	
Persistence and degradability	Biodegradability: not applicable. Low potential for absorption in soil.
ThOD	Not applicable (inorganic)

<b>ethanol (64-17-5)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test) data on mobility of the substance available.
Biochemical oxygen demand (BOD)	0.8 – 0.967 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.7 g O <sub>2</sub> /g substance
ThOD	2.1 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.43 % ThOD

<b>Alcohols, C12-15 , ethoxylated (68131-39-5)</b>	
Persistence and degradability	Literature reports: readily degradable in water. test: 81 %, OECD 302B Zahn- Well. Biodegradability in soil: no data available.

### 12.3. Bioaccumulative potential

<b>sodium carbonate (497-19-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	-6.19 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

<b>ethanol (64-17-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	-0.31 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

<b>Alcohols, C12-15 , ethoxylated (68131-39-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	3
Bioaccumulative potential	According to literature, not bioaccumulative.

### 12.4. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with Local, State, and Federal regulations.  
Ecological waste information : Avoid release to the environment.

## SECTION 14: Transport information

### 14.1. UN Number

UN-No.(DOT) : Not Regulated  
Other information : No supplementary information available.

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### 14.2. UN proper shipping name

DOT : Not Regulated  
IATA UN3082 Environmentally hazardous substance, Liquid, N.O.S. (Quaternary Ammonium Chloride), 9, PG III  
Environmental hazards – YES

IMDG UN3082 Environmentally hazardous substance, Liquid, N.O.S. (Quaternary Ammonium Chloride), 9, PG III  
Environmental hazards, Marine Pollutant – YES  
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
IATA; IMDG



## SECTION 15: Regulatory information

### 15.1. US Federal regulations

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### sodium carbonate (497-19-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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#### alkyl dimethyl benzyl ammonium chloride (C12-18) (68391-01-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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#### C12-C14-alkyl(ethylbenzyl)dimethylammonium chloride (85409-23-0/68956-79-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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#### ethanol (64-17-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard Fire hazard
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#### Alcohols, C12-15 , ethoxylated (68131-39-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
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SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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### 15.2. International regulations

#### CANADA

##### ethanol (64-17-5)

Listed on the Canadian DSL (Domestic Substances List).

##### Alcohols, C12-15 , ethoxylated (68131-39-5)

Listed on the Canadian DSL (Domestic Substances List).

#### EU-Regulations

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

##### 15.2.2. National regulations

##### ethanol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

EPA Registration Number : 1839-95-10693 • EPA Est. No. 10693-CA-1

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### EPA Comments

: This chemical is a pesticide registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use.

KEEP OUT OF REACH OF CHILDREN

DANGER

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. KEEP OUT OF REACH OF CHILDREN. CORROSIVE. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear goggles or face shield, rubber gloves, and protective clothing. Harmful if swallowed. Remove contaminated clothing and wash before reuse. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. Contains no phosphorous.

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice. IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

### 15.3. US State regulations

Prop 65 Comments :

WARNING: This product can expose you to chemicals including Acetaldehyde, which are known to the State of California to cause cancer. This product can expose you to chemicals including Ethylene Glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## SECTION 16: Other information

Abbreviations Legend:

Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Carc. 1A	Carcinogenicity, Category 1A
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Corr. 1C	Skin corrosion/irritation Category 1C
Skin Irrit. 2	Skin corrosion/irritation Category 2
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation



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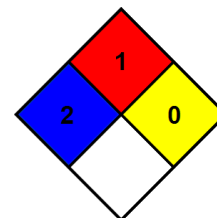
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H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H350	May cause cancer
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



### Hazard Rating

Health : 2

Flammability : 1

Physical : 0

Personal protection : B

B - Safety glasses, Gloves

### Disclaimer 2.0

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