

## SECTION 1: Identification

### 1.1. Identification

Product name : CSS-5001T  
Product code : 255840

### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Scale and Corrosion Inhibitor  
Recommended use : Scale and Corrosion Inhibitor

### 1.3. Supplier

Anderson Chemical  
Company

325 South Davis Ave.  
Litchfield, MN, 55355  
T 320-693-2477 - F 320-693-8238

### 1.4. Emergency telephone number

Emergency number : 1-800-424-9300  
ChemTrec

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### GHS US classification

Oxidizing solids Category 3	H272	May intensify fire; oxidizer
Acute toxicity (oral) Category 3	H301	Toxic if swallowed
Serious eye damage/eye irritation Category 2A	H319	Causes serious eye irritation
Reproductive toxicity Category 1B	H360	May damage fertility or the unborn child
Hazardous to the aquatic environment – Acute Hazard Category 1	H400	Very toxic to aquatic life

Full text of H statements : see section 16

### 2.2. GHS Label elements, including precautionary statements

#### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H272 - May intensify fire; oxidizer  
H301 - Toxic if swallowed  
H319 - Causes serious eye irritation  
H360 - May damage fertility or the unborn child  
H400 - Very toxic to aquatic life

Precautionary statements (GHS US) :

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P220 - Keep/Store away from combustible materials

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P221 - Take any precaution to avoid mixing with combustible materials  
 P264 - Wash hands, forearms and face thoroughly after handling.  
 P270 - Do not eat, drink or smoke when using this product.  
 P273 - Avoid release to the environment.  
 P280 - Wear eye protection, face protection, protective clothing, protective gloves.  
 P301+P310 - If swallowed: Immediately call a doctor.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 - If exposed or concerned: Get medical advice/attention.  
 P330 - Rinse mouth.  
 P337+P313 - If eye irritation persists: Get medical advice/attention.  
 P370+P378 - In case of fire: Use media appropriate for surrounding fire to extinguish  
 P391 - Collect spillage.  
 P405 - Store locked up.  
 P501 - Dispose in a safe manner in accordance with local/national regulations

**2.3. Other hazards which do not result in classification**

No additional information available

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

92.3% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

**SECTION 3: Composition/Information on ingredients****3.1. Substances**

Not applicable

**3.2. Mixtures**

Name	Product identifier	%	GHS US classification
Sodium Nitrite	CAS-No.: 7632-00-0	≥ 80	Ox. Sol. 3, H272 Acute Tox. 3 (Oral), H301 Eye Irrit. 2A, H319 Aquatic Acute 1, H400
Benzotriazole	CAS-No.: 95-14-7	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Acute 3, H402
Tolyltriazole	CAS-No.: 29385-43-1	< 1	Acute Tox. 4 (Oral), H302 Repr. 2, H361 Aquatic Chronic 3, H412
Sodium metaborate, anhydrous	CAS-No.: 7775-19-1	< 1	Eye Irrit. 2A, H319 Repr. 2, H361
Disodium Tetraborate, Anhydrous	CAS-No.: 1330-43-4	< 1	Eye Irrit. 2A, H319 Repr. 1B, H360

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

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## 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 exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a poison center or doctor/physician.

### 4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms	: Toxic if swallowed.
Symptoms/effects	: May damage fertility or the unborn child.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: May intensify fire; oxidizer.
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Fight fire remotely due to the risk of explosion.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

General measures	: No open flames. No smoking.
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#### 6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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#### 6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

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## 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

## 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Hazardous waste due to potential risk of explosion.  
 Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Take any precaution to avoid mixing with combustible materials. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.  
 Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed.  
 Storage conditions : Keep only in the original container in a cool, well-ventilated place. Keep container closed when not in use. Keep in fireproof place.  
 Incompatible products : Strong bases. Strong acids.  
 Incompatible materials : Sources of ignition. Direct sunlight. Heat sources. Combustible materials.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Disodium Tetraborate, Anhydrous (1330-43-4)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m <sup>3</sup> (inhalable particulate matter (Borate compounds, inorganic))
ACGIH OEL STEL	6 mg/m <sup>3</sup> (inhalable particulate matter (Borate compounds, inorganic))
ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	1 mg/m <sup>3</sup>

### 8.2. Appropriate engineering controls

No additional information available

### 8.3. Individual protection measures/Personal protective equipment

**Personal protective equipment:**  
 Avoid all unnecessary exposure.

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**Hand protection:**

Wear protective gloves.

**Eye protection:**

Chemical goggles or safety glasses

**Respiratory protection:**

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator

**Personal protective equipment symbol(s):****Other information:**

Do not eat, drink or smoke during use.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state	: Solid
Appearance	: tablet.
Color	: light blue
Odor	: slight
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: Water: 100 %
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: May intensify fire; oxidizer.

**9.2. Other information**

No additional information available

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**SECTION 10: Stability and reactivity****10.1. Reactivity**

No additional information available

**10.2. Chemical stability**

May intensify fire; oxidizer.

**10.3. Possibility of hazardous reactions**

Not established.

**10.4. Conditions to avoid**

Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Overheating. Open flame.

**10.5. Incompatible materials**

Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

fume. Carbon monoxide. Carbon dioxide.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Acute toxicity (oral) : Toxic if swallowed.  
 Acute toxicity (dermal) : Not classified  
 Acute toxicity (inhalation) : Not classified

**CSS-5001T**

ATE US (oral)	91.942 mg/kg body weight
Unknown acute toxicity (GHS US)	92.3% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

**Sodium Nitrite (7632-00-0)**

LD50 oral rat	85 mg/kg (Source: JAPAN_GHS)
LD50 oral	77 mg/kg
LC50 Inhalation - Rat	5.5 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	5.5 mg/l/4h
ATE US (oral)	85 mg/kg body weight
ATE US (vapors)	5.5 mg/l/4h
ATE US (dust, mist)	5.5 mg/l/4h

**Benzotriazole (95-14-7)**

LD50 oral rat	560 mg/kg (Source: NLM_CIP)
LD50 oral	560 mg/kg
LD50 dermal rabbit	> 10000 mg/kg (Source: EPA_HP)
LD50 dermal	10000 mg/kg
LC50 Inhalation - Rat	1910 mg/m <sup>3</sup> (Exposure time: 3 h Source: NLM_CIP)

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<b>Benzotriazole (95-14-7)</b>	
LC50 Inhalation - Rat (Dust/Mist)	1.43 mg/l/4h
ATE US (oral)	560 mg/kg body weight
ATE US (dust, mist)	1.43 mg/l/4h
<b>Tolyltriazole (29385-43-1)</b>	
LD50 oral rat	675 mg/kg (Source: NZ_CCID)
LD50 dermal rabbit	> 4000 mg/kg (Source: EPA_HPVS)
LC50 Inhalation - Rat	> 1.73 mg/l (Exposure time: 1 h Source: EPA_HPVS)
ATE US (oral)	675 mg/kg body weight
<b>Sodium metaborate, anhydrous (7775-19-1)</b>	
LD50 oral rat	2330 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA_API)
ATE US (oral)	2330 mg/kg body weight
<b>Disodium Tetraborate, Anhydrous (1330-43-4)</b>	
LD50 oral rat	2660 mg/kg (Source: JAPAN_GHS)
LD50 oral	2660 mg/kg
LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA_API)
LC50 Inhalation - Rat	> 2.04 mg/l/4h
ATE US (oral)	2660 mg/kg body weight

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: May damage fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Toxic if swallowed.
Symptoms/effects	: May damage fertility or the unborn child.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

**SECTION 12: Ecological information****12.1. Toxicity**

Ecology - water : Very toxic to aquatic life.

<b>Sodium Nitrite (7632-00-0)</b>	
LC50 - Fish [1]	0.19 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: EPA)

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<b>Sodium Nitrite (7632-00-0)</b>	
LC50 - Fish [2]	0.092 – 0.13 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: EPA)
<b>Benzotriazole (95-14-7)</b>	
LC50 - Fish [1]	39 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 - Crustacea [1]	141.6 mg/l (Exposure time: 48 h - Species: water flea)
EC50 96h - Algae [1]	15.4 mg/l (Species: freshwater algae)
<b>Tolyltriazole (29385-43-1)</b>	
LC50 - Fish [1]	65 mg/l (Exposure time: 96h - Species: Brachidanio rerio)
EC50 - Crustacea [1]	35.4 mg/l (Exposure time: 48h - Species: Daphnia Magnia)
ErC50 algae	62 mg/l (Exposure time: 72h - Species: Scenedesmus subspicatus)
<b>Disodium Tetraborate, Anhydrous (1330-43-4)</b>	
LC50 - Fish [1]	340 mg/l (Exposure time: 96 h - Species: Limanda limanda Source: IUCLID)
EC50 - Crustacea [1]	1085 – 1402 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 96h - Algae [1]	158 mg/l (Species: Desmodesmus subspicatus)
EC50 96h - Algae [2]	2.6 – 21.8 mg/l (Species: Pseudokirchneriella subcapitata [static])

**12.2. Persistence and degradability**

<b>CSS-5001T</b>	
Persistence and degradability	Not established.
<b>Sodium Nitrite (7632-00-0)</b>	
Persistence and degradability	Rapidly degradable
<b>Benzotriazole (95-14-7)</b>	
Persistence and degradability	Not rapidly degradable
<b>Tolyltriazole (29385-43-1)</b>	
Persistence and degradability	Not rapidly degradable
<b>Sodium metaborate, anhydrous (7775-19-1)</b>	
Persistence and degradability	Not rapidly degradable
<b>Disodium Tetraborate, Anhydrous (1330-43-4)</b>	
Persistence and degradability	Rapidly degradable

**12.3. Bioaccumulative potential**

<b>CSS-5001T</b>	
Bioaccumulative potential	Not established.
<b>Sodium Nitrite (7632-00-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	-3.7 (at 25 °C)
<b>Tolyltriazole (29385-43-1)</b>	
Partition coefficient n-octanol/water (Log Pow)	(1.079 - <=1.083 - at 25 °C (at pH 7-<=8)

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## Disodium Tetraborate, Anhydrous (1330-43-4)

BCF - Fish [1]	(no evidence of bioaccumulation)
Partition coefficient n-octanol/water (Log Pow)	-1.53 (at 22 °C (at pH 7.5)

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.




## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
 Ecological information : Avoid release to the environment. Hazardous waste due to toxicity.

## SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
<b>14.1. UN number</b>		
1500	1500	1500
<b>14.2. Proper Shipping Name</b>		
Sodium nitrite	SODIUM NITRITE	Sodium nitrite
<b>Transport document description</b>		
UN1500 Sodium nitrite, 5.1 (6.1), III	UN 1500 SODIUM NITRITE, 5.1 (6.1), III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1500 Sodium nitrite, 5.1 (6.1), III, ENVIRONMENTALLY HAZARDOUS
<b>14.3. Transport hazard class(es)</b>		
5.1 (6.1)	5.1 (6.1)	5.1 (6.1)
		
<b>14.4. Packing group</b>		
III	III	III
<b>14.5. Environmental hazards</b>		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information available		

### 14.6. Special precautions for user

DOT  
 UN-No. (DOT) : UN1500

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DOT Special Provisions (49 CFR 172.102) : A1 - Single packaging are not permitted on passenger aircraft.  
 A29 - Combination packaging consisting of outer expanded plastic boxes with inner plastic bags are not authorized for transportation by aircraft.  
 IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).  
 IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.  
 T1 - 1.5 178.274(d)(2) Normal. .... 178.275(d)(2)  
 TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 152  
 DOT Packaging Non Bulk (49 CFR 173.xxx) : 213  
 DOT Packaging Bulk (49 CFR 173.xxx) : 240  
 DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 25 kg  
 DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 100 kg  
 DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.  
 DOT Vessel Stowage Other : 56 - Stow "separated from" ammonium compounds, 58 - Stow "separated from" cyanides

**IMDG**  
 Limited quantities (IMDG) : 5 kg  
 Excepted quantities (IMDG) : E1  
 Packing instructions (IMDG) : P002  
 IBC packing instructions (IMDG) : IBC08  
 IBC special provisions (IMDG) : B3  
 Tank instructions (IMDG) : T1  
 Tank special provisions (IMDG) : TP33  
 EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE  
 EmS-No. (Spillage) : S-Q - SPILLAGE SCHEDULE Quebec - OXIDIZING SUBSTANCES  
 Stowage category (IMDG) : A  
 Segregation (IMDG) : SGG12, SG38, SG49  
 Properties and observations (IMDG) : Colorless deliquescent solid. Soluble in water. Mixtures with combustible material are readily ignited and may burn fiercely. Mixtures with ammonium compounds or cyanides may explode. Decomposes if heated, giving off toxic nitrous fumes and gases supporting combustion. Harmful if swallowed or by dust inhalation.

**IATA**  
 PCA Excepted quantities (IATA) : E1  
 PCA Limited quantities (IATA) : Y546  
 PCA limited quantity max net quantity (IATA) : 10kg  
 PCA packing instructions (IATA) : 559  
 PCA max net quantity (IATA) : 25kg  
 CAO packing instructions (IATA) : 563  
 CAO max net quantity (IATA) : 100kg  
 Special provision (IATA) : A803

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ERG code (IATA) : 5P

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Sodium Nitrite	CAS-No. 7632-00-0	≥ 80%
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#### Sodium Nitrite (7632-00-0)

CERCLA RQ	100 lb
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### 15.2. International regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

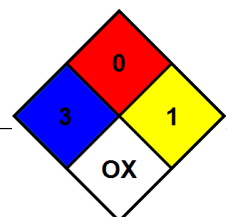
## SECTION 16: Other information

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Other information : None.

Full text of H-phrases	
H272	May intensify fire; oxidizer
H301	Toxic if swallowed
H302	Harmful if swallowed
H319	Causes serious eye irritation
H332	Harmful if inhaled
H360	May damage fertility or the unborn child
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.



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NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.
NFPA specific hazard	: OX - Materials that possess oxidizing properties.
Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
Personal protection	: J - Splash goggles, Gloves, Synthetic apron, Dust & vapor respirator

Safety Data Sheet (SDS), USA

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.