

# COOLTREAT 350

## Safety Data Sheet

according to the United Nations GHS (Rev. 10, 2023)  
Issue date: 10/20/2024 Revision date: 10/19/2027 Version: 1.0

### SECTION 1: Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Product name : COOLTREAT 350

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : A molybdate-based product employing unique DIOLTECH (TM) corrosion.

#### 1.4. Supplier's details

##### Supplier

Chemical Marketing and Distribution Co. Ltd.  
Dammam 31431,  
P.O. Box 1053  
Saudi Arabia  
T +966138217777 - F +966138472648  
[sales@bci.com.sa](mailto:sales@bci.com.sa)

#### 1.5. Emergency phone number

Emergency number : +966138217777

### SECTION 2: Hazard identification

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

##### Classification according to the United Nations GHS

Acute toxicity (oral), Category 4	H302
Acute toxicity (dermal), Category 3	H311
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Hazardous to the aquatic environment – Acute Hazard, Category 2	H401

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects : Toxic in contact with skin, Harmful if swallowed, Causes skin irritation, Causes serious eye irritation, Toxic to aquatic life

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

##### Labelling according to the United Nations GHS

Hazard pictograms (GHS UN) :



Signal word (GHS UN)	: Danger
Hazardous ingredients	: sodium hydroxide; caustic soda
Hazard statements (GHS UN)	: H302 - Harmful if swallowed H311 - Toxic in contact with skin H315 + H319 - Causes skin irritation and serious eye irritation H401 - Toxic to aquatic life
Precautionary statements (GHS UN)	: P264 - Wash hands, forearms and face thoroughly after handling. P264+P265 - Wash hands, forearms and face thoroughly after handling. Do not touch eyes. P270 - Do not eat, drink or smoke when using this product.

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P273 - Avoid release to the environment.  
P280 - Wear protective clothing, eye protection, face protection, protective gloves.  
P301+P317 - IF SWALLOWED: Get medical help.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P316 - Get emergency medical help immediately.  
P321 - Specific treatment (see specific cleansing agent(s), supplemental first aid instruction on this label).  
P330 - Rinse mouth.  
P332+P317 - If skin irritation occurs: Get medical help.  
P337+P317 - If eye irritation persists: Get medical help.  
P361+P364 - Take off immediately all contaminated clothing and wash it before reuse.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P405 - Store locked up.  
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
2-Propenoic acid, sodium salt	CAS-No.: 7446-81-3	3.95	Aquatic Acute 1, H400
sodium hydroxide; caustic soda	CAS-No.: 1310-73-2	2.09	Skin Corr. 1A, H314

Full text of H-statements: see section 16

## SECTION 4: First-aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures general	: Call a poison center or a doctor if you feel unwell. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Obtain medical attention if breathing difficulty persists.
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. Wash skin with plenty of water. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention. Seek medical attention if ill effect or irritation develops.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists. 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. Seek medical attention if ill effect or irritation develops.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Rinse mouth. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.

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### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable 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

Hazardous decomposition products in case of fire : Toxic fumes may be released. Thermal decomposition can lead to the release of irritating gases and vapours.

### 5.3. Special protective actions 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 the environment.  
Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

General measures : Evacuate unnecessary personnel.  
Personal Precautions, Protective Equipment and Emergency Procedures : Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Prevention Measures for Secondary Accidents : Avoid release to the environment.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment. Wear suitable protective clothing. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Ventilate spillage area. Avoid contact with skin, eyes and clothing.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

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

For containment : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.  
Other information : Dispose of materials or solid residues at an authorized site.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Provide good ventilation in process area to prevent formation of vapour. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment.

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Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety procedures.

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

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Store locked up. Store in a well-ventilated place. Keep cool.

Packaging materials : IBC HDPE. Jerry Can PE.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

sodium hydroxide; caustic soda (1310-73-2)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Sodium hydroxide
ACGIH OEL C	2 mg/m <sup>3</sup>
Remark (ACGIH)	TLV® Basis: URT, eye, & skin irr
Regulatory reference	ACGIH 2024

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.  
Other information : Do not eat, drink or smoke during use.

### 8.3. Individual protection measures, such as personal protective equipment (PPE)

#### Personal protective equipment:

Wear protective gloves. Wear protective clothing. Wear foot protection. Wear a mask.

Hand protection : Impermeable protective gloves. protective gloves  
Eye protection : Chemical goggles or safety glasses. Safety glasses  
Skin and body protection : Wear suitable protective clothing  
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Wear suitable respiratory equipment in case of insufficient ventilation

#### Personal protective equipment symbol(s)



### 8.4. Exposure limit values for the other components

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Basic physical and chemical properties

Physical state : Liquid  
Colour : Colourless.  
Odour : Not available  
Odour threshold : Not available  
Melting point : Not available  
Freezing point : -5 °C  
Boiling point : Not available

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Flammability	: Non flammable
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic (calculated value) (40 °C)	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1.08 g/cm <sup>3</sup>
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Solubility	: Not available
Particle size	: Not applicable

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid exposure to extreme heat, moisture, and strong acids.

### 10.5. Incompatible materials

Reacts with strong acids, leading to potential evolution of hazardous gases, especially due to the presence of sodium hydroxide and other reactive compounds.

### 10.6. Hazardous decomposition products

Thermal decomposition may produce hazardous gases such as carbon oxides, nitrogen oxides, and sulfur oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Toxic in contact with skin.
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

COOLTREAT 350	
ATE UN (oral)	371.651 mg/kg bodyweight
ATE UN (dermal)	371.651 mg/kg bodyweight

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Unknown acute toxicity (GHS UN)Unknown acute toxicity (GHS UN)	97.61% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 97.61% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 99.7% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
2-Propenoic acid, sodium salt (7446-81-3)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
sodium hydroxide; caustic soda (1310-73-2)	
LD50 oral rat	325 mg/kg (Source: OECD_SIDS)
LD50 dermal rabbit	325 mg/kg Source: ECHA
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
2-Propenoic acid, sodium salt (7446-81-3)	
LOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Toxic to aquatic life.
Classification procedure (Hazardous to the aquatic environment, short-term (acute))	: Calculation method
Hazardous to the aquatic environment, long-term (chronic)	: Not classified (Based on available data, the classification criteria are not met)

2-Propenoic acid, sodium salt (7446-81-3)	
LC50 - Fish [1]	27 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: ECHA)
EC50 - Crustacea [1]	95 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	1.4 mg/l Source: National Institute of Technology and Evaluation
LOEC (chronic)	8.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
sodium hydroxide; caustic soda (1310-73-2)	
LC50 - Fish [1]	> 35 mg/l
EC50 - Crustacea [1]	40.4 mg/l Test organisms (species): Ceriodaphnia sp.
EC50 - Other aquatic organisms [1]	> 33 mg/l waterflea

### 12.2. Persistence and degradability

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Persistence and degradability	Rapidly degradable

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### 2-Propenoic acid, sodium salt (7446-81-3)

Persistence and degradability	Not rapidly degradable
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### sodium hydroxide; caustic soda (1310-73-2)

Persistence and degradability	Not rapidly degradable
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### 12.3. Bioaccumulative potential

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Bioaccumulative potential	No additional information available
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### 2-Propenoic acid, sodium salt (7446-81-3)

Partition coefficient n-octanol/water (Log Pow)	94.05 Source: National Library of Medicine
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### sodium hydroxide; caustic soda (1310-73-2)

Partition coefficient n-octanol/water (Log Pow)	-3.88
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### 12.4. Mobility in soil

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Mobility in soil	No additional information available
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### 12.5. Other adverse effects

Ozone	: Not classified (Based on available data, the classification criteria are not met)
Other adverse effects	: No additional information available
Effect on the ozone layer	: No additional information available.
Other information	: Avoid release to the environment.




## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose of in a safe manner in accordance with local/national regulations.
Ecological waste information	: Avoid release to the environment.

## SECTION 14: Transport information

In accordance with UN RTDG / IMDG / IATA /

UN RTDG	IMDG	IATA
<b>14.1. UN number</b>		
1824	1824	1824
<b>14.2. UN Proper Shipping Name</b>		
SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION	Sodium hydroxide solution
<b>14.3. Transport hazard class(es)</b>		
8	8	8
		
<b>14.4. Packing group</b>		
III	III	III

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UN RTDG	IMDG	IATA
<b>14.5. Environmental hazards</b>		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		

### 14.6. Special precautions for user

#### UN RTDG

Special provisions (UN RTDG) : 223  
Limited quantities (UN RTDG) : 5L  
Excepted quantities (UN RTDG) : E1  
Packing instruction (UN RTDG) : P001, IBC03, LP01  
Portable tank and bulk container special instructions (UN RTDG) : T4  
Portable tank and bulk container special provisions (UN RTDG) : TP1

#### IMDG

Special provisions (IMDG) : 223  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P001, LP01  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP1  
EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE  
EmS-No. (Spillage) : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES  
Stowage category (IMDG) : A  
Segregation (IMDG) : SGG18, SG35  
Properties and observations (IMDG) : Colourless liquid. Corrosive to aluminium, zinc and tin. Reacts with ammonium salts, evolving ammonia gas. Causes burns to skin, eyes and mucous membranes. Reacts violently with acids.

#### IATA

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y841  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 852  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 856  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A3, A803  
ERG code (IATA) : 8L

### 14.7. Transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

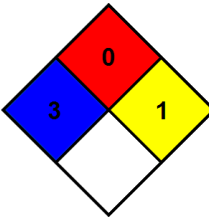
## SECTION 16: Other information

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	: None	
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.	
Issue date	: 10/20/2024	
Revision date	: 10/19/2027	
Other information	: None.	

Full text of H-statements:	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H401	Toxic to aquatic life

Safety Data Sheet (SDS), UN

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.