

**REDA**  
**SAFETY DATA SHEET (SDS)**  
**ZenTreat A-300**

**SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** ZenTreat A-300  
**Product Application:** Non-oxidizing Biocide  
**Manufacturer:** REDAChem United for Trading Co.  
P.O. Box 77683, Al Khobar 31952,  
ABT Building 2nd Floor, Al Bustan District  
Kingdom of Saudi Arabia (+966 13) 812 7775 (+966 13)812 1715  
[www.redachem.com](http://www.redachem.com)  
**Emergency Telephone Number:** Saudi Arabia: +966 13 812 7775

**SECTION 2: COMPOSITION INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	EC No.	%
5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	-	5 - 10
2-Methyl-4-isothiazolin-3-one	2682-20-4	-	5 - 10

**SECTION 3: HAZARDS IDENTIFICATION****Potential Health Effects:**

Likely routes of exposure: Eye, skin contact and inhalation.  
Eye contact: Irritant and corrosive to eyes  
Skin contact: Irritating to skin. Causes burns.  
Inhalation: Inhalation of vapor or mist can cause irritation of nose and throat  
Ingestion: Material is harmful if swallowed

**SECTION 4: FIRST AID MEASURES****Eye Contact:**

Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

**Skin Contact:**

Immediate continued and thorough washing in flowing water for at least 30 minutes is imperative while removing contaminated clothing. Prompt medical consultation is essential. Wash clothing before reuse. Properly dispose of leather items such as shoes, belts, and watchbands. Suitable emergency safety shower facility should be immediately available.

**Inhalation:**

Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, and then give artificial respiration, if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice. If breathing is difficult, oxygen should be administered by qualified personnel.

**Ingestion:**

Call a 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. Never give anything by mouth to an unconscious person.

**Notes to Physician:**

Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. Maintain adequate ventilation and oxygenation of the patient. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. Probable mucosal damage may contraindicate the use of gastric lavage. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition

of the product have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor or going for treatment.

**Emergency Personnel Protection:**

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

## SECTION 5: FIRE- FIGHTING MEASURES

**Extinguishing Media:** To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam.

**Fire Fighting Procedures:** Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Move container from fire area if this is possible without hazard. To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS.

**Special Protective Equipment for Firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

**Unusual Fire and Explosion Hazards:** This material will not burn until the water has evaporated. Residue can burn. Container may rupture from gas generation in a fire situation. If exposed to fire from another source and water is evaporated, exposure to high temperatures may cause toxic fumes.

**Hazardous Combustion Products:** Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Sulfur oxides. Nitrogen oxides. Hydrogen chloride. Carbon monoxide. Carbon dioxide.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Environmental Precautions:

Use personal protection recommended in section 8.

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatom earth in drums for waste disposal. Prevent any material from entering drains or waterways. If the product contaminates waterways, rivers, or drains, alert the relevant authorities in accordance with statutory procedures.

Spill Clean-up Methods:

Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container. Flush spill area with water.

## SECTION 7: HANDLING AND STORAGE

**Handling:**

Observe precautions stated on label and also industrial safety regulations. Avoid contact of product with the skin and eyes. Smoking, eating and drinking are prohibited in premises where the preparation is used. Emptied containers retain vapor and product residue. Observe all recommended safety precautions until container is cleaned, reconditioned, or destroyed. The reuse of this material's container for non-industrial purposes is prohibited and any reuse must be in consideration of the data provided in this material safety data sheet.

**Storage:**

Keep the container tightly closed in a dry place.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment:



Eye Protection:

Hand Protection:

Body Protection:

Wear safety goggles. Provide eye washes in workshops where the product is constantly handled.

Protective gloves must be worn.

Wear apron while handling / dosing this product.

**Respiratory Protection:** Avoid breathing vapor or mist. Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. The respirator use limitations specified by the manufacturer must be observed.

**Ventilation:** Provide natural or mechanical ventilation to minimize exposure. If practical, use local mechanical exhaust ventilation at sources of air contamination such as processing equipment.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Clear
State	: Liquid
Color	: Pale green
Odor Characteristic	: Mild
pH of concentrate	: 3.0 – 5.0
Specific Gravity @ 25°C	: 1.02 – 1.04
Viscosity, cps	: 3 CPS @ 25C
Freezing Point, (°C)	: -3
Boiling Point, (°C)	: 100
Percentage Volatility, (%)	: 57 - 60
Solubility in Water	: Soluble

#### SECTION 10: STABILITY AND REACTIVITY

**Stability:** This material is considered stable under specified conditions of storages.

**Conditions to avoid:** None known

**Material to avoid:** Avoid contact with oxidizing agents, reducing agents, amines, mercaptans.

**Hazardous decomposition products:** Thermal decomposition may yield the following: hydrogen chloride, sulphur dioxide, oxides of nitrogen.

#### SECTION 11: TOXICOLOGICAL INFORMATION

**Routes of exposure** Inhalation. Skin contact. Eye contact.

**Local effects** Irritating to eyes and skin.

#### SECTION 12: ECOLOGICAL INFORMATION

Product	Aquatic	EC50	Species	Test results
ZenTreat A-300	Crustacean	LC50	Daphnia	14 mg/l, 48 hours
	Fish		Fish	12 mg/l, 96 hours estimated
			Rainbow	15 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

**Ecotoxicity** Contains a substance which causes risk of hazardous effects to the environment.

**Environmental effects** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

#### SECTION 13: DISPOSAL CONSIDERATIONS

##### Disposal Instructions:

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not dispose of waste into sewer. Dispose in accordance with all applicable regulations.

##### Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

#### SECTION 14: TRANSPORT INFORMATION

**UN Number:** 3265

**Proper Shipping Name:** Corrosive liquid, Acidic, Organic

**IMDG Class:** 8

Packing Group:

III

**SECTION 15: REGULATORY INFORMATION**

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations. In addition, directive 2004/73/EC with the 29° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.

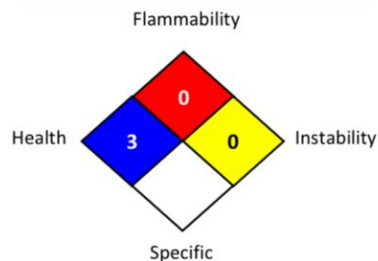
**Particular hazards associated with the risk and safety recommendations:**

R34	Causes burns.
R20/22	Harmful by inhalation and if swallowed.
R34	May cause sensitisation by skin contact.
S36/37/39	Wear suitable protective clothing, gloves, and eye/face protection.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28	After contact with skin, wash immediately with plenty of soap and water.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S60	This material and its containers must be disposed of as hazardous waste.

Product Label (s):

**SECTION 16: OTHER INFORMATION****HMIS:** Hazardous Materials Identification System**NFPA:** National Fire Protection Association**HMIS Rating**

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

**NFPA 704 Rating**

"This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use. The product must not be used for any purposes other than those specified under section 1 without first obtaining written handling instructions"