

## ZOBELL MARINE AGAR 2216 (MARINE AGAR 2216)

### SECTION 1: PRODUCT IDENTIFICATION

**Product Name:** ZOBELL MARINE AGAR 2216 (MARINE AGAR 2216)

**Product Code:** TM 207

**REACH Registration Number:** This product is a mixture. Reach registration number is not available for this mixture

**Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses :Laboratory Chemicals, Analytical Purpose, Biochemical Analysis.

### SECTION 2: HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

**CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]**

Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008.

**Label elements**

**Labeling according to Regulation (EC) No.1272/2008**

The product does not need to be labelled in accordance with EC directives or respective national laws.

**Other hazards**

None

### SECTION 3: COMPOSITION /INFORMATION ON INGREDIENTS

Component	Classification	Concentration
Boric acid		
CAS No. : 10043-35-3 EC No. : 233-139-2 Index-No : 005-007-00-2	<b>As Per EC Regulation 1272/2008</b> Repr.Tox. 1A, 1B H360	>=0.01 - <=0.1%

Component	Classification	Concentration
Calcium chloride, anhydrous		
CAS No. : 10043-52-4 EC No. : 233-140-8	<b>As Per EC Regulation 1272/2008</b> Eye Irrit. 2A H319	>=1.0 - <=5.0%

Component	Classification	Concentration
Potassium bromide		
CAS No. : 2139-62-0 EC No. : 231-830-3	<b>As Per EC Regulation 1272/2008</b> As Per EC Regulation 1272/2008 Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H315; H319; H335	>=0.1 - <=1.0

Component	Classification	Concentration
Strontium chloride		
CAS No. : 10476-85-4 EC No. : 233-971-6	<b>As Per EC Regulation 1272/2008</b> Skin Irrit. 2; Eye Dam. 1; STOT SE 3 H315; H318; H335	>=0.01 - <=0.1%

Component	Classification	Concentration
Ammonium nitrate		
CAS No. : 10476-85-4 EC No. : 233-971-6	<b>As Per EC Regulation 1272/2008</b> Ox. Sol. 3; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H272; H315; H319; H335	>=0.001 - <=0.01%



Refer Section 16 for complete statement of H codes and its classification

#### **SECTION 4: FIRST AID MEASURES**

##### **Description of first aid measures**

###### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

###### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

###### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

###### **In case of eye contact**

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

###### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

###### **Most important symptoms and effects, both acute and delayed**

No data available.

###### **Indication of immediate medical attention and special treatment needed**

No data available

#### **SECTION 5: FIRE FIGHTING MEASURES**

##### **Extinguishing media**

###### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

###### **Unsuitable extinguishing media**

No data available

###### **Special hazards arising from the substance or mixture**

Carbon oxides, Sodium oxides, Hydrogen chloride gas, Magnesium oxides, Sulphur oxides, Calcium oxide, Potassium oxides, Nitrogen oxides (NO<sub>x</sub>)

###### **Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

###### **Further information**

No data available

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

##### **Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

##### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

##### **Methods and materials for containment and cleaning up**

Soak up with inert adsorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

##### **Reference to other sections**

For disposal see section 13.

#### **SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.



**Conditions for safe storage, including any incompatibilities** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Recommended Storage Temperature:** On receipt store between 10-25°C

**Specific end uses**

Apart from the uses mentioned in section 1, no other specific uses are stipulated.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Components with workplace control parameters

### Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the products.

#### Personal protective equipment

##### Hygiene measure

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

##### Eye/face protection

Tightly fitting safety goggles; Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

##### Skin protection Handle with gloves.

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### Body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### Environment exposure controls

Do not empty into drains.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

a) Appearance	: Cream to yellow coloured homogeneous free flowing powder
b) Odour	: No data available
c) Odour Threshold	: No data available
d) pH	: 7.40 - 7.80
e) Melting point/freezing point	: No data available
f) Initial boiling point and boiling range	: No data available
g) Flash point	: No data available
h) Evaporation rate	: No data available
i) Flammability (solid, gas)	: No data available
j) Upper/lower flammability or explosive limits	: No data available
k) Vapour pressure	: No data available



l) Vapour density	: No data available
m) Relative density	: No data available
n) Water solubility	: No data available
o) Partition coefficient noctanol/water	: No data available
p) Auto-ignition temperature	: No data available
q) Decomposition temperature	: No data available
r) Viscosity	: No data available
s) Explosive properties	: No data available
t) Oxidizing properties	: No data available

#### Other safety information

No data available

### SECTION 10: STABILITY AND REACTIVITY DATA

**Reactivity:** No data available

**Chemical stability:** No data available.

**Possibility of hazardous reactions:** No data available

**Conditions to avoid:** No data available

**Incompatible materials:** No data available

**Hazardous decomposition products:** Refer Section 5

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

**Acute toxicity:** No data available

**Skin corrosion/irritation:** No data available

**Serious eye damage/eye irritation:** No data available

**Respiratory or skin sensitization:** No data available

**Germ cell mutagenicity:** No data available

#### Carcinogenicity:

IARC: No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity:** No data available

**Specific target organ toxicity- single exposure:** No data available

**Aspiration hazard:** No data available

#### Potential Health

**Effects Inhalation:** REFER SECTION 2

**Skin:** REFER SECTION 2

**Eyes:** REFER SECTION 2

**Ingestion:** REFER SECTION 2

**Additional Information:** RTECS: Not available

#### Components

##### Phenol Red

Acute Oral Toxicity

Rat LD50: >600 mg/Kg

Rat Intravenous LD50 :752 mg/Kg

Mouse Intravenous LD50: 1368 mg/Kg Inhalation May cause respiratory irritation.

**Additional Information:** RTECS: SJ7490000

#### Components

##### Boric Acid

Acute Toxicity

Rat oral LD50 : 2660 mg/kg

Rabbit dermal LD50 : 2000 mg/kg



Mouse Oral: LD50 = 3450 mg/kg.

**Additional Information:**

RTECS : ED4550000

Specific concentration limits (SCL): >5.5%

Boric acid is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

**Calcium chloride**

Acute oral toxicity

Rat LD50 : 1,000 mg/kg

(As per IUCLID)

Acute dermal toxicity

Rat LD50 : 2,630 mg/kg

(As per IUCLID)

Skin irritation

Rabbit

Result : No irritation

(As per OECD Test Guideline 404)

Eye irritation

Rabbit

Result: Eye irritation

(As per OECD Test Guideline 405)

Causes serious eye irritation.

**Additional Information**

RTECS: EV9800000

**Potassium bromide**

Acute oral toxicity

Rat oral LD50: 2000 mg/kg, 7d (ECHA)

(As per OECD Guideline 401)

Effect on Skin

Rabbit- No skin irritation ,4h

(As per OECD Guideline 404)

Effect on Eyes

Rabbit- Irritating to eyes

(As per OECD Guideline 405)

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific Target Organ Toxicity -Single Exposure

No data available

Specific Target Organ Toxicity -Repeated Exposure

No data available

Aspiration hazard

No data available

**Additional Information**

RTECS : TS7650000

**Strontium chloride**

Acute oral toxicity

Rat LD50 : 2,250 mg/kg

Germ cell mutagenicity

Mouse : Cytogenetic analysis

Specific target organ toxicity - single exposure



Inhalation : May cause respiratory irritation.

**Additional information:**

RTECS: WK8400000

**Ammonium nitrate**

Acute oral toxicity

LD50 rat: 2,462 mg/kg

Symptoms: Nausea, Vomiting, Diarrhoea, Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

(OECD Test Guideline 401)

Acute inhalation toxicity

LC50 rat: > 88.8 mg/l; 4 h (IUCLID)

Symptoms: Inhalation may lead to the formation of oedemas in the respiratory tract.

(OECD Test Guideline 401)

**Additional Information:**

RTECS:BR9050000

**Further information:**

After absorption of large quantities: Symptoms: Methaemoglobinaemia with headache, cardiac arrhythmia, drop in blood pressure, dyspnoea, and spasms, key symptom: cyanosis (blue colouration of the blood). The following applies to ammonium salts in general: after swallowing: local irritation symptoms, nausea, vomiting and diarrhoea. Systemic effect: after the uptake of very large quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis and haemolysis.

## SECTION 12: ECOLOGICAL INFORMATION

**Toxicity**

No data available

**Components:**

**Boric Acid**

Toxicity to fish *Gambusia affinis* LC50 :5600 mg/l

Rainbow trout LC50:150mg B/L;24d

Goldfish LC50:46mg; 7d

Toxicity to daphnia and other aquatic invertebrates *Daphnia* EC50 :115 mg/l

**Components Calcium chloride**

Toxicity to fish

*Lepomis macrochirus* (Bluegill sunfish) LC50 : 10,650 mg/l; 96 h (As per IUCLID)

Toxicity to daphnia and other aquatic invertebrates

*Daphnia magna* (Water flea) EC50 : 144 mg/l; 48 h (As per IUCLID)

Toxicity to algae *Algae* EC50 : 3,130 mg/l; 120 h (As per IUCLID)

**Components Potassium bromide**

Toxicity to fish *Pimephales promelas* (Fathead Minnow) LC50: > 45 mg/l; 96 h As per IUCLID

Toxicity to daphnia and other aquatic invertebrates

*Daphnia magna* (water flea) EC50: >1000 mg /L; 48 h As per OECD Test guideline 202

**Components: Strontium chloride**

Toxicity to fish *Austropotamobius pallipes* pall LC50 : 440 mg/l; 96 h

Toxicity to daphnia and other aquatic invertebrates *Daphnia magna* (Water flea) EC50 : 94 mg/l; 48 h

Toxicity to aquatic algae and cyanobacteria

*Chlorella vulgaris* : >150 mg Sr/L; 12 wk unbounded NOEC

**Components: Ammonium Nitrate**

LC50 *Cyprinus carpio* (Carp): 74 mg/l; 48 h (IUCLID)

Toxicity to daphnia and other aquatic invertebrates EC50 *Daphnia magna* (Water flea): 555 mg/l(IUCLID)

Toxicity to algae *Scenedesmus quadricauda* (Green algae): 83 mg/l(IUCLID)

**Persistence and degradability**

No data available

**Bioaccumulative potential**



No data available

**Mobility in soil**

No data available

**PBT and vPvB assessment:** This preparation contains no substance considered to be persistent, bioaccumulating or toxic (PBT) at levels of 0.1% or higher.

**Other adverse effects** No data available

### SECTION 13: DISPOSAL CONSIDERATION

**Waste treatments methods**

**Product**

Offer surplus and non- recyclable solutions to a licenced company. Contact a licenced professional waste disposal service to dispose off this material.

**Contaminated packaging**

Dispose of as unused product

### SECTION 14: TRANSPORT INFORMATION

**UN - No**

ADNR : ADR : IATA\_C : IATA\_P : IMDG : RID :

**UN proper shipping name**

ADNR	:	Not dangerous goods
ADR	:	Not dangerous goods
IATA_C	:	Not dangerous goods
IATA_P	:	Not dangerous goods
IMDG	:	Not dangerous goods
RID	:	Not dangerous goods

**Transport hazard class(es)**

ADNR : - ADR : - IATA\_C : - IATA\_P : - IMDG : - RID : -

**Packaging group**

ADNR : ADR : IATA\_C : IATA\_P : IMDG : RID :

**Environmental hazards**

ADNR : No ADR : No IMDG : Marine Pollutant No IATA\_C : No IATA\_P : No RID : No

**Special precautions for use** No data available

### SECTION 15: REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Safety health and environment regulations/legislation specific for the substance or mixture**

No data available

**Chemical Safety Assessment**

No data available

### SECTION 16: OTHER INFORMATION

H272	May intensify fire; oxidizer
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H360	May damage fertility or the unborn child



Eye Dam. 1	Serious eye damage or eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage or eye irritation, Category 2A
Ox. Sol. 3	Oxidising solids, Category 3
Repr.Tox. 1A, 1B	Reproductive toxicity, Category 1A, 1B
Skin Irrit. 2	Skin corrosion or irritation, Category 2
STOT SE 3	Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3

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