

ZOBELL MARINE AGAR 2216 (MARINE AGAR 2216)

SECTION 1: PRODUCT IDENTIFICATION

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

Product Code: CM 21166

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	As Per EC Regulation 1272/2008 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	As Per EC Regulation 1272/2008 Eye Irrit. 2A H319	>=1.0 - <=5.0%

Component	Classification	Concentration
Potassium bromide		
CAS No. : 2139-62-0 EC No. : 231-830-3	As Per EC Regulation 1272/2008 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	As Per EC Regulation 1272/2008 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	As Per EC Regulation 1272/2008 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_x)

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 *Austroptamobius 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 IC50 *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

