













Dehydrated Culture Media  
Bases / Media Supplements

## Material Safety Data Sheet

Name of the Product		Zobell Marine Agar 2216 (Marine Agar 2216)	
Code No.		DM 1384	
Section 1	Chemical Identification		
	Code No.	:	DM 1384
	Name of the Product	:	Zobell Marine Agar 2216 (Marine Agar 2216)
	Produced by	:	Central Drug House Pvt. Ltd.
	Address	:	7/28 Vardaan House, Darya Ganj, New Delhi (INDIA)
	Tel. No.	:	00 91 11 49404040
Section 2	Composition		
	Ingredients	Grams/Litre	Ingredients Grams/Litre
	Peptic digest of animal tissue	5.00	Yeast extract 1.00
	Ferric citrate	0.10	Sodium chloride 19.45
	*Magnesium chloride	8.80	Sodium sulphate 3.24
	*Calcium chloride	1.80	*Potassium chloride 0.55
	Sodium bicarbonate	0.16	*Potassium bromide 0.08
	Strontium chloride	0.034	*Boric acid 0.022
	*Sodium silicate	0.004	*Sodium fluoride 0.0024
	*Ammonium nitrate	0.0016	Disodium phosphate 0.008
	Agar	15.00	
	Final pH (at 25°C)	7.6±0.2	
	* Harmful / Oxidising / Irritant / Corrosive / Toxic material		
	Magnesium chloride		
	CAS No. : 7786-30-3		
	R : 36/37/38 S : 26-36		
	RTECS : OM 2800000		
	Calcium chloride		
	CAS No. : 10043-52-4		
	R : 36 S : 22-24		
	RTECS : EV 9800000		
	Potassium chloride		
	CAS No. : 7447-40-7		
	R : 36/37/38 S : 26-36		
	RTECS : TS 8050000		
	Potassium bromide		
	CAS No. : 7758-03-02		
	R : 22-36/37/38 S : 22-26--36		
	RTECS : TS 7650000		
	Boric acid		
	CAS No. : 10043-35-3		
	R : 22-36/37/38 S : 26-36/37		
	RTECS : ED 4550000		
	Sodium silical		
	CAS No. : 1344-09-8		
	R : 35 S : 26-36/37/39-45		
	Sodium fluoride		
	CAS No. : 7681-49-4		
	R : 25-32-36/38 S : 22-36-45		
	RTECS : WB 0350000		
	Ammonium nitrate		
	CAS No. : 6484-52-2		
	R : 8-36/37/38 S : 15-17-26-36		
	RTECS : BR 9050000		
			
Section 3	Hazards Identification		
	Hazard : Inhalation and ingestion of, or skin penetration by these substances is harmful to one.s health. Non-recurring, recurring or lengthy exposure to these substances may result in irreversible damage.		
	Caution : Avoid contact with the human body, including inhalation of the vapours and in cases of malaise consult a doctor.		



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Oxidising



Corrosive to metals



Skin Irritation



Acute toxicity

### Section 4

**Hazard :** Oxidizing substances can ignite combustible material or worsen existing fires and thus make fire-fighting more difficult.

**Caution :** Keep away from combustible material.

**Hazard :** Living tissue as well as equipment are destroyed on contact with these chemicals.

**Caution :** Do not breathe vapours and avoid contact with skin, eyes and clothing.

**Hazard :** This symbol designates substances which may have an irritant effect on skin, eyes and respiratory organs.

**Caution :** Do not breathe vapours and avoid contact with skin and eyes.

**Hazard :** The substances are very hazardous to health when breathed, swallowed or in contact with the skin and may even lead to death. Non-recurring, recurring or lengthy exposure to these substances may result in irreversible damage.

**Caution :** Avoid contact with the human body, and immediately consult a doctor in cases of malaise.

### First - Aid Measures

In case of swallowing, wash out mouth with water provided person is conscious. In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. In case of inhalation, remove to fresh air. If breathing becomes difficult, call physician. In case of contact with eyes, wash with copious amounts of water for at least 15 minutes. Assure adequate washing by separating the eyelids with fingers. In serious conditions, call a physician, show the container or label.

### Section 5

#### Fire Fighting Measures

Extinguishing Media. Water spray. Carbon dioxide, dry chemical powder or appropriate foam. Special fire-fighting procedures. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Unusual fire and explosions hazards Emits toxic fumes under fire conditions.

### Section 6

#### Accidental Release Measures

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

### Section 7

#### Handling and Storage

Handling - Refer to Section 8

Storage - Store below 30°C

### Section 8

#### Exposure Controls / Personal Protection

Wear appropriate NIOSH/MSHA-approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Mechanical exhaust required.

### Section 9

#### Physical and Chemical Properties

Appearance : Homogeneous powder

Colour : Cream to yellow

### Section 10

#### Stability and Reactivity

Stability : Product is stable if stored as per the conditions specified under storage of Section No. 7. Product loses its potency/performance above 45°C.

Conditions to avoid : Heat and light.

Decomposition products : If product is decomposed toxic fumes of Carbon monoxide and Carbon dioxide may evolve.

Hazardous polymerization will not occur.

### Section 11

#### Toxicological Information

Acute Effects : May be harmful if swallowed.

Exposure can cause : Stomach pains, vomiting, diarrhoea. Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

RTECS No. : OM 2800000 EV 9800000 TS 8050000 TS7650000 ED 4550000 WB 0350000 BR 9050000 For complete information RTECS may be referred.

### Section 12

#### Ecological Information

Data not available

### Section 13

#### Disposal Considerations

On completion of work all used or unusable preparations of this product and derivatives thereof are to be disposed off by autoclaving and/or by incineration. Dispose off waste in accordance with all applicable Federal, State and local laws.

### Section 14

#### Transport Information

UN No. : Not applicable.

### Section 15

#### Regulatory Information

Risk Phrases : Irritating to eyes, respiratory system and skin






Risk Phrases : Irritating to eyes

Risk Phrases : Harmful if swallowed



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	<p>Risk Phrases : Toxic if swallowed</p> <p>Risk Phrases : Causes severe burns</p> <p>Risk Phrases : Contact with acids liberates very toxic gas</p> <p>Risk Phrases : Contact with combustible material may cause fire</p> <p>Safety Phrases : Wear suitable protective clothing</p> <p>Safety Phrases : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice</p> <p>Safety Phrases : Do not breathe dust</p> <p>Safety Phrases : Avoid contact with skin</p> <p>Safety Phrases : Wear suitable protective clothing and gloves</p> <p>Safety Phrases : Wear suitable protective clothing, gloves and eye/face protection</p> <p>Safety Phrases : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)</p> <p>Safety Phrases : Keep away from heat</p> <p>Safety Phrases : Keep away from combustible material</p>
 Skin Irritation	Significance of signs : Inhalation and ingestion of, or skin penetration by these substances is harmful to one's health. Non-recurring, recurring or lengthy exposure to these substances may result in irreversible damage.
 Oxidizing	Significance of signs : Oxidizing substances can ignite combustible material or worsen existing fires and thus make fire-fighting more difficult.
 Corrosive to metals	Significance of signs : Living tissue as well as equipment are destroyed on contact with these chemicals.
 Skin Irritation	Significance of signs : This symbol designates substances which may have an irritant effect on skin, eyes and respiratory organs.
 Acute toxicity	Significance of signs : The substances are very hazardous to health when breathed, swallowed or in contact with the skin and may even lead to death. Non-recurring, recurring or lengthy exposure to these substances may result in irreversible damage.
Section 16	<p><b>Other Information</b></p> <p>The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user's obligation to investigate and determine the suitability of the information for their particular purpose.</p>