

# Safety Data Sheet

## GNC Marine Bio-Block

Compiled 15/08/15

Revised 02/10/16

### 1. IDENTIFICATION OF THE SUBSTANCE/PRODUCT AND OF THE COMPANY/UNDERTAKING

- 1.1 Identification of the Substance or Preparation:** GNC Marine Bio Block
- 1.2 Intended use of the Substance/Preparation:** Slow release solid block for effluent treatment
- 1.3 Company/Undertaking Identification:** GNC Marine Ltd  
Unit 11, Empire Business Park  
Parcel Terrace  
Derby  
DE1 1LY  
UK
- 1.4 Emergency Telephone Number:** Tel: +44 (0)1283 221297  
Email: enquiries@GNC Marine.com

### 2. HAZARDS IDENTIFICATION

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

Classification according to 1272/2008/EC

Acute toxicity, Oral (Category 4), H302

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318

#### 2.2. Label elements

Hazard Pictograms



**Signal word:** Danger

**Hazard statements** H302 Harmful if swallowed  
H315 Causes skin irritation  
H318 Causes serious eye damage

#### Precautionary Statements

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.


### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

Not applicable, material is a mixture

#### 3.2. Mixtures


Hazardous ingredients declared according to Regulation (EC) No 1272/2008

CAS: 25155-30-0 EINECS: 246-680-4	Sodium Dodecylbenzene Sulphonate 	Acute Tox. 4: H302 Eye Dam. 1: H318 Skin Irrit. 2: H315	>30%
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# Safety Data Sheet

## GNC Marine Bio-Block

Compiled 15/08/15  
Revised 02/10/16

CAS: 7631-99-4 EINECS: 231-554-3	Sodium nitrate 	Ox. Sol. 2, H272 Eye Irrit. 2 H319	<10%
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No other ingredient or substance carries any Risk Phrase according to Regulation (EC) No 1272/2008 for the purpose of classification.

### 4. FIRST-AID MEASURES

#### 4.1 Description of first aid measures

<b>Eye Contact</b>	Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
<b>Skin Contact</b>	Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.
<b>Inhalation</b>	No inhalation hazard anticipated, but if in doubt move the exposed person to fresh air.
<b>Ingestion</b>	Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible. Rinse mouth thoroughly.

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

<b>Eye contact</b>	Corneal burns may occur. May cause permanent damage.
<b>Skin contact</b>	Blistering may occur. Progressive ulceration will occur if treatment is not immediate.
<b>Ingestion</b>	Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.
<b>Inhalation</b>	No inhalation hazard anticipated.
<b>Delayed/immediate effects</b>	Immediate effects can be expected after short-term exposure.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Eye bathing equipment should be available on the premises.

### 5. FIRE FIGHTING MEASURES

- 5.1 Extinguishing Media:**  
Product is a mixture of organic and inorganic materials and is not a flammable solid (as defined in CLP: Annex I: 2.7.1.1). Use extinguishing media appropriate to the surrounding fire conditions
- 5.2 Special hazards arising from the substance or mixture**  
Product is a mixture of organic and inorganic materials and may melt, but is not expected to burn or create special hazards.
- 5.3. Advice for firefighters:**  
Wear full protective clothing and suitable respiratory equipment when necessary

### 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**  
No special protective clothing required.
- 6.2 Environmental precautions**  
Do not allow large amounts (i.e. more than 20 kg) of product to enter drains undiluted (it may cause physical blockages). Do not allow spillages or wash down from spillage to enter an open water course or surface water.

# Safety Data Sheet

## GNC Marine Bio-Block

Compiled 15/08/15  
Revised 02/10/16

### 6.3 Methods and material for containment and cleaning up

Small and large spillages can be swept up and transferred to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

### 6.4. Reference to other sections

See sections 8 and 13 for additional information

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Wash thoroughly after handling. Adopt best Manual Handling considerations when handling, carrying and dispensing.

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

Keep in a cool dry, well-ventilated area. Keep containers tightly closed. Store in correctly labelled containers

### 7.3 Specific end use(s)

No exposure scenario currently available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

No specific exposure limits applicable in this product

### 8.2 Exposure controls

#### Engineering measures

No special requirements

#### Respiratory protection

Not required: although WELs exist for components of the product, it is a solid and in the recommended use, i.e. placing product into drains, the risk of inhalation of these materials is very small.

#### Hand protection

Chemical resistance gloves advised

#### Eye protection

None required

#### Protective equipment

No special protective clothing required.

#### Environmental measures

Do not allow product to enter open water courses or surface water

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Blue/green solid
Odour	Slight/soapy
Odour threshold	Not determined
pH	7-8
Melting point/freezing point	Partial melting at approx. 60°C
Initial boiling point and boiling range	>100°C
Flash point	>100°C
Evaporation rate	No evaporation expected
Flammability (solid, gas)	Not a flammable solid (not easily ignited by brief contact with an ignition source and the flame does not spread rapidly).
Upper/lower flammability or explosive limits	Not applicable, see above
Vapour pressure	Not applicable, no vapour expected

# Safety Data Sheet

## GNC Marine Bio-Block

Compiled 15/08/15  
Revised 02/10/16

<b>Vapour density</b>	Not applicable, no vapour expected
<b>Relative density</b>	1.35
<b>Solubilities</b>	Slowly soluble/miscible in water
<b>Partition coefficient n-octanol/water</b>	Not applicable, product is a mixture of organic and inorganic solid materials
<b>Autoignition temperature</b>	Not determined
<b>Decomposition temperature</b>	No decomposition if stored as prescribed
<b>Explosive properties</b>	No ingredients with explosive properties
<b>Oxidising properties</b>	Contains sodium nitrate (see above)

9.2. **Other information** None available

### 10. STABILITY AND REACTIVITY

- 10.1 **Reactivity** No specific hazard
- 10.2 **Chemical stability** Stable under normal conditions
- 10.3 **Possibility of hazardous reactions** Product is a solid and no hazardous reactions are expected. Contains sodium nitrate
- 10.4 **Conditions to avoid** Not determined
- 10.5 **Incompatible materials** None known
- 10.6 **Hazardous decomposition products** None known

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

##### a) Acute toxicity

The preparation contains the following substances:

Substance	Toxicity
Sodium Dodecylbenzene Sulphonate	<p><b>Acute toxicity</b> LD50 Oral - rat - 438 mg/kg Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Lacrimation. Behavioral:Somnolence (general depressed activity). Diarrhoea</p> <p><b>Skin corrosion/irritation</b> Skin - rabbit - Skin irritation - 24 h</p> <p><b>Serious eye damage/eye irritation</b> Eyes - rabbit - Severe eye irritation - 24 h</p> <p><b>Respiratory or skin sensitization</b> no data available</p> <p><b>Germ cell mutagenicity</b> no data available</p> <p><b>Carcinogenicity</b> IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</p> <p><b>Reproductive toxicity</b> no data available</p> <p><b>Specific target organ toxicity</b> single exposure Inhalation - May cause respiratory irritation. <b>Specific target organ toxicity - repeated exposure</b> no data available</p>
Sodium nitrate	<p>LD50 Oral - rat - 1.267 mg/kg LD50 Oral - rabbit - 2.680 mg/kg LDLO Oral - Child - 22,5 mg/kg LD50 Intravenous - mouse - 175 mg/kg</p> <p><b>Skin corrosion/irritation</b></p>

# Safety Data Sheet

## GNC Marine Bio-Block

Compiled 15/08/15  
Revised 02/10/16

	<p>no data available</p> <p><b>Serious eye damage/eye irritation</b> no data available</p> <p><b>Respiratory or skin sensitization</b> no data available</p> <p><b>Germ cell mutagenicity</b> no data available</p> <p><b>Carcinogenicity</b> IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</p>
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The microorganisms in this product are all Group 1 (i.e. considered unlikely to cause human disease) according to EU Directive 2000/54/EC and related legislation.

- b) Skin corrosion/irritation:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.
- c) Serious eye damage/irritation:** Corneal burns may occur. May cause permanent damage.
- d) Respiratory or skin sensitisation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing. No skin sensitisation.
- e) Germ cell mutagenicity:** Does not contain ingredients that are known germ cell mutagens
- f) Carcinogenicity:** Does not contain ingredients that are known carcinogens
- g) Reproductive toxicity:** Does not contain ingredients that are known reproductive toxicants
- h) STOT single exposure:** Does not contain ingredients that are known to cause single target organ toxicity with single exposure
- i) STOT repeated exposure:** Does not contain ingredients that are known to cause single target organ toxicity with repeated exposure
- j) Aspiration hazard:** Does not contain ingredients that are known to cause aspiration hazards

### 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Substance	Acute Toxic Effect
Sodium Dodecylbenzene Sulphonate	Fish mortality NOEC - Oncorhynchus kisutch - 3.1 mg/l - 3d mortality LOEC - Oncorhynchus kisutch - 5.6 mg/l - 3d Toxicity to daphnia and other aquatic invertebrates mortality NOEC - Daphnia - 4 mg/l - 7d
Sodium nitrate	Rat - Acute oral toxicity (LD50): 1267 mg/kg Fish - static test LC50 - Gambusia affinis (Mosquito fish) - 6.650 mg/l - 96 h Daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 6.000 mg/l - 24 h

#### 12.2 Persistence and degradability

Consists of both inorganic and organic solids: the inorganic materials will dissolve into water. From the degradability information of the organic ingredients and their concentration in the mixture, no persistence is expected.

#### 12.3 Bioaccumulative potential

Not anticipated to bioaccumulate due to high water solubility and hence, biomagnification is not likely.

#### 12.4 Mobility in soil

This preparation has high water solubility and relatively low vapour pressure. Therefore it is likely to distribute predominantly to the aqueous environment.

#### 12.5 Results of PBT and vPvB assessment

Not anticipated to be PBT or vPvB

#### 12.6. Other adverse effects

None known

### 13. DISPOSAL CONSIDERATIONS

# Safety Data Sheet

## GNC Marine Bio-Block

Compiled 15/08/15  
Revised 02/10/16

Waste from Residues: Do not dispose of this preparation into surface drainage systems. Disposal of product and residues via the sewage or other foul waste system.

Contaminated Packaging: Dispose of by incineration or landfill in accordance with local regulations.

### 14. TRANSPORT INFORMATION

- 14.1 **UN number** Not regulated
- 14.2 **UN proper shipping name** ADR/IMDG/IATA Not dangerous goods
- 14.3 **Transport hazard class(es)** Not regulated
- 14.4 **Packing group** Not regulated
- 14.5 **Environmental hazards** IMDG Not marine pollutant
- 14.6 **Special precautions for user** None required
- 14.7 **Transport in bulk** according to Annex II of MARPOL73

### 15. REGULATORY INFORMATION

- 15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No known regulations or restrictions exist in EU Member states
- 15.2 **Chemical safety assessment**  
No chemical safety assessment has been carried out.

### 16. OTHER INFORMATION

#### Revision

This SDS has been updated from Revision 1 to comply with the full implementation of the CLP Regulation (EC) No 1272/2008 for mixtures, namely the classification of ingredients and preparations using the new GHS/CLP symbols and phrases and communication of classification, hazards and advice according to the new rules.

#### Explanation of H-phrases that appear in section 3

- H272 May intensify fire; oxidiser.
- H302 Harmful if swallowed
- H315 Causes skin irritation
- H318 Causes serious eye damage
- H319 Causes serious eye irritation

#### References

Allergens in consumer products: S.W.P. Wijnhoven, J. Ezendam, A.G. Schuur, H. van Loveren and J.G.M. van Engelen. RIVM Report 320025001/2008, Center for Substances and Integrated Risk Assessment [www.vwa.nl/txmpub/files/?p\\_file\\_id=31183](http://www.vwa.nl/txmpub/files/?p_file_id=31183)  
Part 3 of Annex VI of Regulation (EC) No 1272/2008

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<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF>

Annex II Annex II of (EU) No 453/2010

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2010:133:0001:0043:en:PDF>

2nd ATP of CLP Regulation 286/2011, Table 3.4.6

<http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=OJ:L:2011:083:FULL&from=EN>

#### Method used to classify:

# Safety Data Sheet

## GNC Marine Bio-Block

Compiled 15/08/15  
Revised 02/10/16

Mixture has been classified by reference to information on ingredients and a worst case on exposure risk taken in each case. The final preparation is a solid block enclosed in a netting. Additionally, this preparation is intended for use only in enclosed systems. Risk assessments should be made on this basis.

### Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any other process.