

# SAFETY DATA SHEET



BIOMAX GEAR EAL 460

## Section 1. Identification

**GHS product identifier** : BIOMAX GEAR EAL 460  
**Product code** : 301866175017  
**Other means of identification** : Not available.  
**Product type** : Liquid.

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

| Identified uses      |        |
|----------------------|--------|
| Lubricating Oil      |        |
| Uses advised against | Reason |
| None known.          |        |

**Supplier's details** : Calumet Branded Products, LLC  
1060 N Capitol Ave Suite 6-401  
Indianapolis, IN 46204  
USA  
Technical Services:317-328-5660

**Emergency telephone number** : 24 hr. CHEMTREC 1-800-424-9300 / International 1-703-527-3887

## Section 2. Hazards identification

**OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Classification of the substance or mixture** : Not classified.

### GHS label elements

**Signal word** : No signal word.  
**Hazard statements** : No known significant effects or critical hazards.

### Precautionary statements

**Prevention** : Not applicable.  
**Response** : Not applicable.  
**Storage** : Not applicable.  
**Disposal** : Not applicable.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture  
**Other means of identification** : Not available.

| Ingredient name                                                  | %     | CAS number |
|------------------------------------------------------------------|-------|------------|
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | <0.25 | 94270-86-7 |

## Section 3. Composition/information on ingredients

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- |                     |                                                                                                                                                                                                                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.                                                                                                               |
| <b>Inhalation</b>   | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| <b>Skin contact</b> | : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.                                                                                                                                                                    |
| <b>Ingestion</b>    | : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.                                            |

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- |                     |                                                     |
|---------------------|-----------------------------------------------------|
| <b>Eye contact</b>  | : No known significant effects or critical hazards. |
| <b>Inhalation</b>   | : No known significant effects or critical hazards. |
| <b>Skin contact</b> | : No known significant effects or critical hazards. |
| <b>Ingestion</b>    | : No known significant effects or critical hazards. |

#### Over-exposure signs/symptoms

- |                     |                     |
|---------------------|---------------------|
| <b>Eye contact</b>  | : No specific data. |
| <b>Inhalation</b>   | : No specific data. |
| <b>Skin contact</b> | : No specific data. |
| <b>Ingestion</b>    | : No specific data. |

### Indication of immediate medical attention and special treatment needed, if necessary

- |                                   |                                                                                                                                                                       |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes to physician</b>         | : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| <b>Specific treatments</b>        | : No specific treatment.                                                                                                                                              |
| <b>Protection of first-aiders</b> | : No action shall be taken involving any personal risk or without suitable training.                                                                                  |

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- |                                       |                                                                 |
|---------------------------------------|-----------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | : Use an extinguishing agent suitable for the surrounding fire. |
| <b>Unsuitable extinguishing media</b> | : Do not use water jet.                                         |

- |                                                   |                                                                                       |
|---------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Specific hazards arising from the chemical</b> | : In a fire or if heated, a pressure increase will occur and the container may burst. |
|---------------------------------------------------|---------------------------------------------------------------------------------------|

## Section 5. Fire-fighting measures

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
sulfur oxides
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name                                                  | Exposure limits |
|------------------------------------------------------------------|-----------------|
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | None.           |

#### Biological exposure indices

No exposure indices known.

#### Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### Skin protection

##### Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

##### Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

##### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

#### Physical state

: Liquid.

#### Color

: Yellow.

#### Odor

: Characteristic.

#### Odor threshold

: Not available.

#### pH

: Not available.

#### Melting point/freezing point

: Not available.

#### Boiling point, initial boiling point, and boiling range

: Not available.

#### Flash point

: Open cup: 268.89°C (516°F) [Cleveland]

## Section 9. Physical and chemical properties and safety characteristics

**Evaporation rate** : Not available.

**Flammability** : Not available.

**Lower and upper explosion limit/flammability limit** : Not available.

| Ingredient name                                                                        | Vapor Pressure at 20°C |          |                | Vapor pressure at 50°C |     |        |
|----------------------------------------------------------------------------------------|------------------------|----------|----------------|------------------------|-----|--------|
|                                                                                        | mm Hg                  | kPa      | Method         | mm Hg                  | kPa | Method |
| 1-Tetradecene, polymer with 1-dodecene, distn. residues, hydrogenated, C24-84 fraction | <0.0041                | <0.00055 | ASTM E 1194-87 |                        |     |        |

**Relative vapor density** : Not available.

**Relative density** : 0.9361

| Media      | Result      |
|------------|-------------|
| cold water | Not soluble |
| hot water  | Not soluble |

**Solubility in water** : Not available.

**Partition coefficient: n-octanol/water** : Not applicable.

| Ingredient name                                                                        | °C         | °F             | Method      |
|----------------------------------------------------------------------------------------|------------|----------------|-------------|
| 1-Tetradecene, polymer with 1-dodecene, distn. residues, hydrogenated, C24-84 fraction | 343 to 369 | 649.4 to 696.2 | ASTM D 2156 |

**Decomposition temperature** : Not available.

**Viscosity** : Kinematic (40°C (104°F)): 463.4 mm<sup>2</sup>/s (463.4 cSt)

**Flow time (ISO 2431)** : Not available.

**Pour point** : -36°C (-32.8°F)

### Particle characteristics

**Median particle size** : Not applicable.

## Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : No specific data.

**Incompatible materials** : No specific data.

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

## Section 11. Toxicological information

| Product/ingredient name                                          | Result      | Species | Dose        | Exposure |
|------------------------------------------------------------------|-------------|---------|-------------|----------|
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | LD50 Dermal | Rat     | >2000 mg/kg | -        |
|                                                                  | LD50 Oral   | Rat     | 3300 mg/kg  | -        |

### Irritation/Corrosion

Not available.

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.



## Section 11. Toxicological information

### Potential chronic health effects

Not available.

|                              |                                                     |
|------------------------------|-----------------------------------------------------|
| <b>General</b>               | : No known significant effects or critical hazards. |
| <b>Carcinogenicity</b>       | : No known significant effects or critical hazards. |
| <b>Mutagenicity</b>          | : No known significant effects or critical hazards. |
| <b>Reproductive toxicity</b> | : No known significant effects or critical hazards. |

### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name                                                                     | Oral (mg/kg) | Dermal (mg/kg)  | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---------------------------------------------------------------------------------------------|--------------|-----------------|--------------------------|----------------------------|-------------------------------------|
| BIOMAX GEAR EAL 460<br>1H-Benzotriazole-1-methanamine, N,N-bis<br>(2-ethylhexyl)-ar-methyl- | N/A<br>3300  | 15105.7<br>2500 | N/A<br>N/A               | N/A<br>N/A                 | N/A<br>N/A                          |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name                                              | Result                | Species                         | Exposure |
|----------------------------------------------------------------------|-----------------------|---------------------------------|----------|
| 1H-Benzotriazole-1-methanamine, N,N-bis<br>(2-ethylhexyl)-ar-methyl- | Acute EC50 0.976 mg/l | Aquatic plants                  | 72 hours |
|                                                                      | Acute EC50 2.05 mg/l  | Daphnia                         | 48 hours |
|                                                                      | Acute LC50 1.3 mg/l   | Fish - <i>Brachydanio rerio</i> | 96 hours |

### Persistence and degradability

| Product/ingredient name | Test                                                                          | Result          | Dose | Inoculum |
|-------------------------|-------------------------------------------------------------------------------|-----------------|------|----------|
| BIOMAX GEAR EAL 460     | OECD 301B<br>Ready<br>Biodegradability -<br>CO <sub>2</sub> Evolution<br>Test | >60 % - 28 days | -    | -        |

  

| Product/ingredient name                                                                     | Aquatic half-life | Photolysis | Biodegradability       |
|---------------------------------------------------------------------------------------------|-------------------|------------|------------------------|
| BIOMAX GEAR EAL 460<br>1H-Benzotriazole-1-methanamine, N,N-bis<br>(2-ethylhexyl)-ar-methyl- | -<br>-            | -<br>-     | Readily<br>Not readily |

### Bioaccumulative potential

Not available.

### Mobility in soil

|                                                          |                  |
|----------------------------------------------------------|------------------|
| <b>Soil/water partition coefficient (K<sub>oc</sub>)</b> | : Not available. |
|----------------------------------------------------------|------------------|

|                              |                                                     |
|------------------------------|-----------------------------------------------------|
| <b>Other adverse effects</b> | : No known significant effects or critical hazards. |
|------------------------------|-----------------------------------------------------|

## Section 13. Disposal considerations

- Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- RCRA classification** : Not Regulated

## Section 14. Transport information

|           | DOT Classification | TDG Classification | IMDG           | IATA           |
|-----------|--------------------|--------------------|----------------|----------------|
| UN number | Not regulated.     | Not regulated.     | Not regulated. | Not regulated. |

- Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

- Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

- U.S. Federal regulations** : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined

**Clean Air Act Section 112** : Not listed

**(b) Hazardous Air Pollutants (HAPs)**

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Not applicable.

#### Composition/information on ingredients

No products were found.

### State regulations

**Massachusetts** : None of the components are listed.

**New York** : None of the components are listed.

**New Jersey** : None of the components are listed.



## Section 15. Regulatory information

**Pennsylvania** : None of the components are listed.

### California Prop. 65

This product is not known to contain California Prop 65 substances  $\geq 1$  ppm

### International lists

#### National inventory

|                                |                                                         |
|--------------------------------|---------------------------------------------------------|
| <b>Australia</b>               | : All components are listed or exempted.                |
| <b>Canada</b>                  | : All components are listed or exempted.                |
| <b>China</b>                   | : Not determined.                                       |
| <b>Eurasian Economic Union</b> | : <b>Russian Federation inventory</b> : Not determined. |
| <b>New Zealand</b>             | : At least one component is not listed.                 |
| <b>Philippines</b>             | : All components are listed or exempted.                |
| <b>Republic of Korea</b>       | : All components are listed or exempted.                |
| <b>Taiwan</b>                  | : All components are listed or exempted.                |
| <b>Thailand</b>                | : Not determined.                                       |
| <b>Turkey</b>                  | : Not determined.                                       |
| <b>United States</b>           | : All components are active or exempted.                |
| <b>Viet Nam</b>                | : Not determined.                                       |

## Section 16. Other information

### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### Procedure used to derive the classification

| Classification  | Justification |
|-----------------|---------------|
| Not classified. |               |

### History

**Date of issue/Date of revision** : 09/11/2024

**Date of previous issue** : 07/31/2023

**Version** : 3.05

### Key to abbreviations

: ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 N/A = Not available  
 SGG = Segregation Group

## Section 16. Other information

UN = United Nations

Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.