

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/02/2017

Reviewed on 01/21/2020

### 1 Identification

- **Product Identifier**
- **Trade name: Dyna-Gro® ZYME**
- **Relevant identified uses of the substance or mixture and uses advised against:**  
Enzyme Root and Equipment Cleanser
- **Product Description** Enzyme Root and Equipment Cleanser
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**  
Dyna-Gro Nutrition Solutions  
2775 Giant Road  
Richmond, CA 94806  
Ph (510) 233-0254
- **Emergency telephone number:** (800) 396-2476

### 2 Hazard(s) Identification

- **Classification of the substance or mixture:**



GHS07

Skin Sens. 1B H317 May cause an allergic skin reaction.

Eye Irrit. 2B H320 Causes eye irritation.

- **Label elements:**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS07

- **Signal word:** Warning
- **Hazard statements:**  
H320 Causes eye irritation.  
H317 May cause an allergic skin reaction.
- **Precautionary statements:**  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P280 Wear protective gloves.  
P264 Wash thoroughly after handling.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).  
P363 Wash contaminated clothing before reuse.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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- **Unknown acute toxicity:**  
This value refers to knowledge of known, established toxicological or ecotoxicological values.
- **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Hazard(s) not otherwise classified (HNOC):** None known

### \* 3 Composition/Information on Ingredients

- **Chemical characterization: Mixtures**
- **Description:** Non-Regulated Material
- **Dangerous Components:** Non-Regulated Material
- **Additional information:**  
The chemical identity of the compounds and proportions used in the mixture are a trade secret.  
They are derived from: Yeast

### \* 4 First-Aid Measures

- **Description of first aid measures:**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.
- **After skin contact:**  
Wash with soap and water.  
If skin irritation occurs, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water.  
If eye irritation occurs, consult a doctor.
- **After swallowing:**  
Rinse mouth with water. Give 1 or 2 glasses of water to dilute. If irritation persists, contact physician.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**  
No further relevant information available.

### 5 Fire-Fighting Measures

- **Extinguishing media:**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters:**
- **Protective equipment:**  
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

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### \* 6 Accidental Release Measures

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

Wear protective equipment. Keep unprotected persons away.  
Product is slippery when spilled.

**Environmental precautions:** Dilute with plenty of water.**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the collected material according to regulations.

**Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**Protective Action Criteria for Chemicals****PAC-1:**

None of the ingredients are listed.

**PAC-2:**

None of the ingredients are listed.

**PAC-3:**

None of the ingredients are listed.

### \* 7 Handling and Storage

**Handling****Precautions for safe handling:**

Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke while handling.  
Wash thoroughly with soap and water after handling.

**Information about protection against explosions and fires:** No special measures required.**Conditions for safe storage, including any incompatibilities:****Storage****Requirements to be met by storerooms and receptacles:** Store at room temperature**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:** None.**Specific end use(s):** No further relevant information available.

### \* 8 Exposure Controls/Personal Protection

**Additional information about design of technical systems:** No further data; see section 7.**Control parameters:****Components with occupational exposure limits:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists that were valid during the creation of this SDS were used as basis.**Exposure controls:****Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

**Breathing equipment:** Not required.

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Trade name: **Dyna-Gro® ZYME™**

· **Protection of hands:**



Protective gloves

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material:**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· **Eye protection:**



Tightly sealed goggles

### \* 9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:** Liquid

**Color:** Amber

· **Odor:** Non-Obnoxious

· **Odor threshold:** Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

**Melting point/Melting range:** Not determined.

**Boiling point/Boiling range:** 100 °C (212 °F)

· **Flash point:** None

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** Not determined.

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Not determined.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

· **Vapor pressure:** Not determined.

· **Density:**

**Relative density @ 20 °C (68 °F):** 1.05

**Vapor density:** Not determined.

**Evaporation rate:** Not determined.

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Trade name: Dyna-Gro® Dyna-ZYME™

**Solubility in / Miscibility with:****Water:** Soluble.**Partition coefficient (n-octanol/water):** Not determined.**Viscosity:****Dynamic:** Not determined.**Kinematic:** Not determined.**Solvent content:****Organic solvents:** 0.0 %**Other information:** No further relevant information available.**\* 10 Stability and Reactivity**

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** >130° F / pH <3.5 / pH >9.5
- **Incompatible materials:** Caustics, acids, strong bases
- **Hazardous decomposition products:** No dangerous decomposition products known.

**\* 11 Toxicological Information****Information on toxicological effects:****Acute toxicity:****Primary irritant effect:****On the skin:** Mild irritant effect.**On the eye:** Mild irritant effect.**Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification.

**Carcinogenic categories:****IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

**NTP (National Toxicology Program):**

None of the ingredients are listed.

**OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

**12 Ecological Information****Toxicity:****Aquatic toxicity:** No further relevant information available.**Persistence and degradability:** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential:** No further relevant information available.**Mobility in soil:** No further relevant information available.**Additional ecological information:****General notes:** Generally not hazardous for water.

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Trade name: Dyna-Gro® Dyna-ZYME™

- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

### \*13 Disposal Considerations

- **Waste treatment methods:**
- **Recommendation:**  
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport Information

- **UN-Number:**
- **DOT, ADR/ADN, ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name:**
- **DOT, ADR/ADN, ADN, IMDG, IATA** Non-Regulated Material
- **Transport hazard class(es):**
- **DOT, ADR/ADN, ADN, IMDG, IATA**
- **Class:** Non-Regulated Material
- **Packing group:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

### 15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

- **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed or exempt from listing.

- **California Proposition 65:**

- **Chemicals known to cause cancer:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

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<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause developmental toxicity:</b></li> </ul>
None of the ingredients are listed.
<ul style="list-style-type: none"> <li>· <b>New Jersey Right-to-Know List:</b></li> </ul>
None of the ingredients are listed.
<ul style="list-style-type: none"> <li>· <b>New Jersey Special Hazardous Substance List:</b></li> </ul>
None of the ingredients are listed.
<ul style="list-style-type: none"> <li>· <b>Pennsylvania Right-to-Know List:</b></li> </ul>
None of the ingredients are listed.
<ul style="list-style-type: none"> <li>· <b>Pennsylvania Special Hazardous Substance List:</b></li> </ul>
None of the ingredients are listed.
<ul style="list-style-type: none"> <li>· <b>Carcinogenic categories:</b></li> </ul>
<ul style="list-style-type: none"> <li>· <b>EPA (Environmental Protection Agency):</b></li> </ul>
None of the ingredients are listed.
<ul style="list-style-type: none"> <li>· <b>TLV (Threshold Limit Value established by ACGIH):</b></li> </ul>
None of the ingredients are listed.
<ul style="list-style-type: none"> <li>· <b>NIOSH-Ca (National Institute for Occupational Safety and Health):</b></li> </ul>
None of the ingredients are listed.
<ul style="list-style-type: none"> <li>· <b>GHS label elements</b></li> </ul>
The product is classified and labeled according to the Globally Harmonized System (GHS).
<ul style="list-style-type: none"> <li>· <b>Hazard pictograms:</b></li> </ul>

GHS07
<ul style="list-style-type: none"> <li>· <b>Signal word:</b> Warning</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Hazard statements:</b></li> </ul>
H320 Causes eye irritation.
H317 May cause an allergic skin reaction.
<ul style="list-style-type: none"> <li>· <b>Precautionary statements:</b></li> </ul>
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P280 Wear protective gloves.
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P272 Contaminated work clothing must not be allowed out of the workplace.
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P302+P352 IF ON SKIN: Wash with plenty of water.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
<ul style="list-style-type: none"> <li>· <b>National regulations:</b></li> </ul>
The product is subject to be classified according with the latest version of the regulations on hazardous substances.

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- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- **Date of preparation / last revision:** 03/02/2017 / 5

- **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety and Health  
OSHA: Occupational Safety & Health Administration  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B  
Skin Sens. 1B: Skin sensitisation – Category 1B

- **\* Data compared to the previous version altered.**

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