Consume Micro-Muscle is an industrial strength, super surfactant concentrate boosted with active microbial grease digesters. Engineered to quickly remove everyday, routine petroleum-based soils, continuously control nuisance odors, and provide benefits to downstream waste treatment by helping degrade petroleum soils. Consume Micro-Muscle is an effective environmental alternative to many traditional industrial degreasers.
High Performance Degreasing:
Five proprietary surfactants, specifically selected for their superior wetting action, form the cleaning and degreasing base of Consume Micro-Muscle. This super surfactant blend provides quick penetration and initial removal of everyday petroleum-based soils such as motor oil, hydraulic fluid, lithium grease, lubricant oils, stamping oils, etc. Consume Micro-Muscle accomplishes the same or better cleaning and degreasing with a lower pH and no solvents. In addition, Consume Micro-Muscle contains no butyl, no bleach, no ammonia and no harsh industrial facility waste treatments.

Continuous Cleaning and Odor Control:
Multiple strains of natural digesters provide persistent residual cleaning and degreasing capabilities. In addition, several grease loving digesters in the formula are custom selected to attack and degrade petroleum soils without generating additional unpleasant odors. The end result is a cleaner, fresher environment that maintains itself during the period between scheduled maintenance.

Improves Recycling System Performance:
Synergistic effects generated through rapid splitting of the super surfactant package coupled with the digestive capabilities of Consume Micro-Muscle lengthen the performance of the recycle system.

Downstream Benefits:
Consume Micro-Muscle keeps drains and pipes free flowing. It will assist the efficiency of pretreatment systems by providing additional biological augmentation of downstream wastewater. Spent degreasing solution contains billions of beneficial digesters that help degrade petroleum soils found in plant and other industrial facility waste treatment systems.

Economical & Versatile:
Consume Micro-Muscle is a concentrate and can be diluted up to 1 oz. per gallon (1:128) depending upon soil conditions. Moderate foaming means Consume Micro-Muscle can be applied with mop and bucket, through a coarse sprayer, in conjunction with a pressure washer or in automatic floor scrubbers.

Who Can Benefit?
Consume Micro-Muscle can be used to clean concrete floors, block and brick walls, forklifts and other materials handling equipment, loading docks, service bays, industrial restrooms, locker rooms, drive-in window areas, etc., in facilities where clean up of petroleum-based soils and greases and odor control is required. It is especially beneficial in those facilities with on-site wastewater treatment systems.

- manufacturing plants
- warehouses
- mass transit systems (tunnels, subways, etc.)
- municipal garages
- auto service centers
- construction companies

Directions for Use:
Some individuals may be sensitive to ingredients in this product. Before using, read product label and Material Safety Data Sheet.

Industrial Cleaning and Degreasing:
1. Use Consume Micro-Muscle as a general-purpose degreaser or in conjunction with automatic scrubbing equipment. It may also be diluted and applied with a coarse sprayer, sponge, brush or mop, depending on the surface to be cleaned.
2. Consume Micro-Muscle is excellent for cleaning most surfaces not harmed by water.

Pressure Washing:
1. Select the correct nozzle for the pressure washer. For example, a 65° nozzle will fan the liquid and is excellent for cleaning large areas. A 10° nozzle will direct a solid stream, which quickly breaks up grime. A 25° nozzle works well as an all-purpose cleaning nozzle.
2. Allow solution to penetrate 3 to 5 minutes.
3. Rinse thoroughly with clean water.

Vehicle Wash:
Dilute at 1 oz./gal. and use as a vehicle wash. Separates quickly and helps improve filtration program.

Be sure to read all Directions, Precautionary and First Aid Statements on product labels before use of this or any Spartan product. If questions remain, consult your employer or a physician. Material Safety Data Sheets for all Spartan products are available from your authorized Spartan distributor or by visiting www.spartanchealth.com.

Specification Data:
Specific Gravity – 1.019 @ 24°C/75°F
pH (Concentrate) – 8.5 – 9.5
Density – 8.49 lbs/gal. @ 24°C/75°F
Stability:
- a. Shelf @ 24°C/75°F—in excess of one year
- b. Accelerated @ 49°C/120°F—3 months
- c. Freeze/Thaw Cycle—3 cycles

Contains over 200 billion microorganisms per gal.
No Solvents, No Sara Title III, No VOCs
Contain Biodegradable Surfactants

Packaging:

| 349765 | 330-gallon totes |
| 349760 | 275-gallon totes |
| 349755 | 55-gallon drum |
| 349730 | 30-gallon drum |
| 349715 | 15-gallon drum |
| 349705 | 5-gallon pail |
| 349704 | 1-gallon (4 per case) |
| 453402 | 2-liter (4 per case) |

Label copy is provided in English and Spanish. Secondary labels are also available.

Guarantee:
Spartan’s modern manufacturing and laboratory control insure uniform quality. If dissatisfied with performance of product, any unused portion may be returned for credit within one year of the date of manufacture. Use product as directed and read all precautionary statements.

For institutional and industrial use only.

© SCC 5/11 L3497
1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Identifier</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name:</td>
<td>CONSUME MICRO-MUSCLE</td>
</tr>
<tr>
<td>Product Number:</td>
<td>3497</td>
</tr>
<tr>
<td>Recommended Use:</td>
<td>Cleaning agent</td>
</tr>
<tr>
<td>Uses Advised Against:</td>
<td>For Industrial and Institutional Use Only</td>
</tr>
<tr>
<td>Manufacturer/Supplier:</td>
<td>Spartan Chemical Company, Inc.</td>
</tr>
<tr>
<td></td>
<td>1110 Spartan Drive</td>
</tr>
<tr>
<td></td>
<td>Maumee, Ohio 43537 USA</td>
</tr>
<tr>
<td></td>
<td>800-537-8990 (Business hours)</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.spartanchemical.com">www.spartanchemical.com</a></td>
</tr>
</tbody>
</table>

24 Hour Emergency Phone Numbers:
- Medical Emergency/Information: 888-314-6171
- Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification
Serious Eye Damage/Eye Irritation: Category 2A

GHS Label Elements
Signal Word: Warning
Symbols:

Hazard Statements: Causes serious eye irritation
Precautionary Statements:
Prevention:
- Wash hands and any exposed skin thoroughly after handling.
- Wear protective gloves
- Wear eye / face protection
Response:
- Eyes
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. See Safety Data Sheet Section 4: “FIRST AID MEASURES” for additional information.
- Specific Treatment:

Storage: Not Applicable
Disposal: Not Applicable

Hazards Not Otherwise Classified: Not Applicable

Other Information:
- May be harmful if swallowed.
- May cause skin irritation.
- Inhalation of vapors or mist may cause respiratory irritation.
- This product contains living bacterial spores. Avoid contact with open wounds, broken skin or mucus membranes.
- Keep out of reach of children.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>7732-18-5</td>
<td>60-100</td>
</tr>
<tr>
<td>alcohol ethoxylate</td>
<td>34398-01-1</td>
<td>1-5</td>
</tr>
<tr>
<td>sodium tripolyphosphate</td>
<td>7758-29-4</td>
<td>1-5</td>
</tr>
<tr>
<td>bacterial spores</td>
<td>PROPRIETARY</td>
<td>&lt;0.1</td>
</tr>
</tbody>
</table>

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- **Skin Contact:** Wash with soap and water. If skin irritation occurs: Get medical attention. Apply a topical antiseptic agent to open wounds or broken skin.
- **Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.

**Note to Physicians:** Treat symptomatically.

5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire

**Specific Hazards Arising from the Chemical:** Dried product is capable of burning. Combustion products are toxic.

**Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.

**Protective Equipment and Precautions for Firefighters:** Wear MSHA/NIOH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

**Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water.

**Methods for Clean-Up:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

**Advice on Safe Handling:** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

**Storage Conditions:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits:** None established.
Engineering Controls: 
Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.

Personal Protective Equipment
Eye/Face Protection: 
Wear splash goggles.

Skin and Body Protection: 
Wear rubber or other chemical-resistant gloves.

Respiratory Protection: 
Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

General Hygiene Considerations: 

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Light green</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>pH</td>
<td>8.0-9.0</td>
</tr>
<tr>
<td>Melting Point / Freezing Point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling Point / Boiling Range</td>
<td>100 °C / 212 °F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 100 °C / &gt; 212 °F ASTM D56</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available.</td>
</tr>
<tr>
<td>Upper Flammability Limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.02</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>No information available.</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity: This material is considered to be non-reactive under normal conditions of use.
Chemical Stability: Stable under normal conditions.
Possibility of Hazardous Reactions: Not expected to occur with normal handling and storage.
Conditions to Avoid: Extremes of temperature and direct sunlight.
Hazardous Decomposition Products: May include carbon monoxide, carbon dioxide (CO2) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure: 
- Eye Contact: Pain, redness, swelling of the conjunctiva and blurred vision.
- Skin Contact: Drying of the skin.
- Inhalation: Nasal discomfort and coughing.
- Ingestion: Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects
Product Information: Data not available or insufficient for classification.

Numerical Measures of Toxicity
The following acute toxicity estimates (ATE) are calculated based on the GHS document.

\[
\text{ATE mix (oral): } 19540 \text{ mg/kg}
\]

### Component Acute Toxicity Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>&gt; 90 mL/kg (Rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>7732-18-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>sodium tripolyphosphate</td>
<td>= 3100 mg/kg (Rat)</td>
<td>&gt; 7940 mg/kg (Rabbit)</td>
<td>Not Available</td>
</tr>
<tr>
<td>7758-29-4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Carcinogenicity:** No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/Aquatic Plants</th>
<th>Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium tripolyphosphate 7758-29-4</td>
<td>Not Available</td>
<td>1650: 48 h Leuciscus idus mg/L LC50</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

**Persistence and Degradability:** No information available.

**Bioaccumulation:** No information available.

**Other Adverse Effects:** No information available.

### 13. DISPOSAL CONSIDERATIONS

**Disposal of Wastes:** Dispose of in accordance with federal, state and local regulations.

**Contaminated Packaging:** Dispose of in accordance with federal, state and local regulations.

### 14. TRANSPORT INFORMATION

**DOT:** Not Regulated

**Proper Shipping Name:** Non-Hazardous Product

**Special Provisions:** Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

**IMDG:** Not Regulated

**Proper Shipping Name:** Non-Hazardous Product

### 15. REGULATORY INFORMATION

**TSCA Status:** (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

**SARA 313**

This product does not contain listed substances above the "de minimus" level

**SARA 311/312 Hazard Categories**

- **Acute Health Hazard:** Yes
- **Chronic Health Hazard:** No
- **Fire Hazard:** No
- **Sudden release of pressure hazard:** No
- **Reactive Hazard:** No

**California Proposition 65**

This product is not subject to warning requirements under California Proposition 65.
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards: 1</th>
<th>Flammability: 0</th>
<th>Instability: 0</th>
<th>Special: N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>Health Hazards: 1</td>
<td>Flammability: 0</td>
<td>Physical Hazards: 0</td>
<td></td>
</tr>
</tbody>
</table>

Revision Date: 03-Aug-2015
Reasons for Revision: Section 14 and 15

Disclaimer:
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet