Product Specification

**Product Name:** EXALTOLIDE®

**Vigon Code:** 502774

**CAS Number:** 106-02-5  
**FEMA Number:** 2840

**Characteristic:**  
**Specification:**

- Acid Value  
  **0.000**  
  **1.000**

- Purity %  
  **98.00**  
  **100.00**

- Gas Chromatograph  
  **PASSES TEST**

- Odor  
  **MUSK ODOR.**

- Color/appearance  
  **WHITE SOLID.**

**Additional Product Information:**

- **Flash Point:** >200 °F
- **Shelf Life:** 18 Months
- **Storage Conditions:** Stable when stored in its original package, tightly sealed in a cool (46-90°F) and dry location out of direct heat and light.

**Effective Date:** October 24, 2016
1. IDENTIFICATION

Product Description: EXALTOLIDE®

CAS # 106-02-5

FEMA Number 2840

Other means of identification

Vigon Item # 502774

Recommended use Concentrated aromatic and flavor ingredient which may be used in flavor and fragrance compounds according to legal and IFRA or FEMA GRAS/FDA guidelines.

Recommended restrictions For Manufacturing Use Only

Company Vigon International, Inc.

127 Airport Road

E. Stroudsburg, PA 18301

For information call: 570-476-6300

Web Site: www.vigon.com

Manufacturer/Importer/Supplier/Distributor information

Washington Irving

24 Hour Emergency Response Information

INFOTRAC (ACCT# 78928);

1-800-535-5053 WITHIN THE U.S.A.

1-352-323-3500 OUTSIDE THE U.S.A.

1. HAZARD(S) IDENTIFICATION

Physical hazards Not classified.

Health hazards

Skin corrosion/irritation Category 3

Sensitization, skin Category 1

Environmental hazards

Hazardous to the aquatic environment, acute hazard Category 1

Hazardous to the aquatic environment, long-term hazard Category 1

Label elements
SAFETY DATA SHEET

502774 EXALTOLIDE®

Revision Date: 06-06-2017
Version # 02

Signal word
Hazard statement
Causes mild skin irritation. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.

Precautionary statement
Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves.

Response
IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage.

Storage

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)
None known.

Supplemental information
None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>16-oxacyclohexadecan-1-one</td>
<td>PENTADECALACTONE</td>
<td>106-02-5</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Oxacyclohexadecan-2-one</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pentadecan-15-olide</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>OMEGA-PENTADECALACTONE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

Inhalation
If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

Skin contact
Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.

Eye contact
Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.

Ingestion
Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

Most important symptoms/effects, acute and delayed
Mild skin irritation. May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical attention and special treatment needed
Not available.

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Water spray, fog, CO2, dry chemical, or alcohol resistant foam.
### 6. ACCIDENTAL RELEASE MEASURES

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

Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

**Methods and materials for containment and cleaning up**

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

The product is immiscible with water and will spread on the water surface.

**Large Spills:** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers.

**Small Spills:** Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in section 13 of the SDS.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment. Retain and dispose of contaminated wash water. Contact local authorities in case of spillage to drain/aquatic environment.

### 7. HANDLING AND STORAGE

**Precautions for safe handling**

Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static charges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.
8. EXPOSURE CONTROLS/PERSOAL PROTECTION

Occupational exposure limits
This substance has no PEL, TLV, or other recommended exposure limit.

Biological limit values
No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls
Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation should be provided so that exposure limits are not exceeded.

Individual protection measures, such as personal protective equipment

  Eye/face protection
  Wear safety glasses with side shields (or goggles). Face shield is recommended.

  Skin protection
  Hand protection
  Chemical resistant gloves.

  Other
  Use of an impervious apron is recommended.

  Respiratory protection
  Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.

  Thermal hazards
  Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Refer to Spec Sheet

  Physical state
  Solid.

  Form
  Solid.

  Color
  Refer to Spec Sheet

Odor
Characteristic.

Odor threshold
Not available.

pH
Not available.

Melting point/freezing point
93.2 - 100.4 °F (34 - 38 °C)

Initial boiling point and boiling range
278.6 °F (137 °C) at 2 mmHg

Flash point
> 200.0 °F (> 93.3 °C) Closed Cup

Evaporation rate
Not available.

Flammability (solid, gas)
Not available.

Upper/lower flammability or explosive limits

  Flammability limit - lower (%)
  Not available.

  Flammability limit - upper (%)
  Not available.

  Explosive limit - lower (%)
  Not available.

  Explosive limit - upper (%)
  Not available.

Vapor pressure
1 mm Hg at 20 °C
Vapor density 8.3
Relative density Not available.
Solubility(ies)
   Solubility (water) Insoluble
Partition coefficient Not available.
(n-octanol/water)
Auto-ignition temperature Not available.
Decomposition temperature Not available.
Viscosity Not available.
Other information
   Explosive properties Not explosive.
   Flammability class Combustible IIIB estimated
   Molecular formula C15H28O2
   Molecular weight 240.39 g/mol
   Oxidizing properties Not oxidizing.

10. STABILITY AND REACTIVITY
Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability Material is stable under normal conditions.
Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.
Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials Strong oxidizing agents.
Hazardous decomposition products No hazardous decomposition products if stored and handled as indicated.

11. TOXICOLOGICAL INFORMATION
Information on likely routes of exposure
   Inhalation No adverse effects due to inhalation are expected.
   Skin contact Causes mild skin irritation. May cause an allergic skin reaction.
   Eye contact Direct contact with eyes may cause temporary irritation. Causes mild eye irritation.
   Ingestion Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics
Information on toxicological effects
Acute toxicity
## SAFETY DATA SHEET

### 502774 EXALTOLIDE®

**Revision Date:** 06-06-2017  
**Version #** 02  
**Print Date:** 06-06-2017

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
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<tbody>
<tr>
<td>16-oxacyclohexadecan-1-one (CAS 106-02-5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>&gt; 5000 mg/kg</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

### Skin corrosion/irritation

Causes mild skin irritation.
- Irritation (dermal, rabbit) (LD50 study): slight irritant @ 100%
- Irritation (dermal, mouse) (phototoxicity study): Non irritant @ 100%
- Irritation (dermal, pig) (phototoxicity study): Non irritant @ 100%
- Irritation (dermal) (Human max.): Non irritant @ 4%
- Irritation (dermal, human) (single patch): Non irritant @ 10%

### Serious eye damage/eye irritation

Direct contact with eyes may cause temporary irritation.
- Irritation (ocular, rabbit) (OECD 405): Non irritant @ 0.5%

### Respiratory or skin sensitization

**Respiratory sensitization**

Not a respiratory sensitizer.

**Skin sensitization**

May cause an allergic skin reaction.
- Sensitization (HRIPT): Non sensitizing @ 2%
- Sensitization (Human max.): Non sensitizing @ 10%

- Photo-toxicity (rabbit): Effects @ 10%, no effects @ 5%
- Photo-toxicity (guinea pig): Effects @ 50%, no effects @ 10%
- Photo-toxicity (guinea pig): No effects @ 20%
- Photo-toxicity (mouse): No effects @ 100%
- Photo-toxicity (pig): No effects @ 100%

### Germ cell mutagenicity

Mutagenicity (OECD 471): Non mutagenic (5 tests)
Genotoxicity (micronucleus test) (OECD 474): No effects

### Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity
- Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
- Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens
- Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
- Not available.

### Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

### Specific target organ toxicity - single exposure

Not classified.
SAFETY DATA SHEET

502774 EXALTOLIDE®

Revision Date: 06-06-2017
Version # 02

Specific target organ toxicity - repeated exposure
Not classified.

Aspiration hazard
Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Very toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Product</th>
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<tbody>
<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Daphnia magna</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fish</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

Persistence and degradability
- Readily biodegradability (OECD 301 F): readily biodegradable
- Readily biodegradability (OECD 301 D): readily biodegradable
- Readily biodegradability (OECD 301 B): readily biodegradable

Bioaccumulative potential
No data available.

Mobility in soil
No data available.

Other adverse effects
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

Disposal instructions
Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations
Dispose in accordance with all applicable regulations.

Hazardous waste code
Not established.

Waste from residues / unused products
Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging
Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

ADN

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class(es)</th>
<th>Subsidiary class(es)</th>
<th>Packing group</th>
<th>Environmental hazards</th>
<th>Labels required</th>
</tr>
</thead>
<tbody>
<tr>
<td>3077</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (16-oxacyclohexadecan-1-one)</td>
<td>9</td>
<td>-</td>
<td>III</td>
<td>Yes</td>
<td>9</td>
</tr>
</tbody>
</table>
### ADR
- **UN number**: 3077
- **UN proper shipping name**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (16-oxacyclohexadecan-1-one)
- **Transport hazard class(es)**: 9
- **Subsidiary class(es)**: -
- **Packing group**: III
- **Environmental hazards**: Yes
- **Labels required**: 9

### RID
- **UN number**: 3077
- **UN proper shipping name**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (16-oxacyclohexadecan-1-one)
- **Transport hazard class(es)**: 9
- **Subsidiary class(es)**: -
- **Packing Group**: III
- **Environmental Hazards**: Yes
- **Labels required**: 9
- **Special precautions for user**: Read safety instructions, SDS and emergency procedures before handling.

### DOT
#### BULK
- **UN number**: 3077
- **Proper shipping name**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (16-oxacyclohexadecan-1-one)
- **Hazard class**: 9
- **Packing group**: III
- **Environmental hazards**:
  - **Marine pollutant**: Yes
- **Packaging exceptions**: 155
- **Packaging bulk**: 240
- **Labels required**: 9

### NON-BULK
Not regulated as dangerous goods.

### IATA
Not regulated as dangerous goods.

### IMDG
- **UN number**: 3077
- **UN proper shipping name**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (16-oxacyclohexadecan-1-one)
- **Transport hazard class(es)**: 9
- **Subsidiary class(es)**: -
- **Packing group**: III
Environmental hazards
  Marine pollutant Yes
Labels required 9
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
ADN; ADR; DOT BULK; IMDG; RID

Marine pollutant

15. REGULATORY INFORMATION
US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
  CERCLA Hazardous Substance List (40 CFR 302.4)
    Not listed.
  SARA 304 Emergency release notification
    Not regulated.
  US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
    Not available.
  OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
    Not regulated.
  TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
    Not regulated.
Superfund Amendments and Reauthorization Act of 1986 (SARA)

- **Hazard categories**
  - Immediate Hazard - Yes
  - Delayed Hazard - No
  - Fire Hazard - No
  - Pressure Hazard - No
  - Reactivity Hazard - No

- **SARA 302 Extremely hazardous substance**
  - Not listed.
- **SARA 311/312 Hazardous chemical**
  - No
- **SARA 313 (TRI reporting)**
  - Not regulated.

Other federal regulations

- **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**
  - Not regulated.
- **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**
  - Not regulated.
- **Safe Drinking Water Act (SDWA)**
  - Not regulated.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).
HMS® ratings

Health: 2
Flammability: 1
Physical hazard: 1

Disclaimer

Vigon International, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user’s responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal, and should not be considered as a guarantee or quality specification. The above information is based on data provided by and collected from recognized sources such as distributors, manufacturers, and technical groups and is considered to be accurate to the best of Vigon’s knowledge as of the date of this document. It is the responsibility of the user to review all safety information about this product and determine its safety and suitability in their own processes and operations. Appropriate warnings and safe handling procedures should be provided to all handlers and users, taking into account the intended use and the specific conditions and factors relating to such use in accordance with all applicable laws and regulations.

Revision information

This document has undergone significant changes and should be reviewed in its entirety.
VIGON INTERNATIONAL, INC
127 AIRPORT RD., EAST STROUDSBURG, PA 18301

The following product(s) distributed by VIGON INTERNATIONAL, INC are certified kosher with the listed restrictions.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Product Name</th>
<th>Status</th>
<th>Restriction</th>
<th>UKD#</th>
</tr>
</thead>
<tbody>
<tr>
<td>502774</td>
<td>EXALTOLIDE</td>
<td>Parve</td>
<td>Kof-K symbol required</td>
<td>KFZ5KAPT41E</td>
</tr>
</tbody>
</table>

To verify or for the most up to date certificate please go to www.KosherCertificate.com

This certificate is valid through 12/31/2019

Rabbi Avram Ossey
Rabbinic Administrator

201 The Plaza. Teaneck, NJ 07666 . Phone 201-837-0500 . Fax 201-837-0126

Disclaimer: This certificate is the private property of Kof-K Kosher Supervision and can not be reposted without the express permission of Kof-K Kosher Supervision.
This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA®). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

**Date:** February 06, 2018
**Document #:** 6718.12506.II186618

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Product Code</th>
<th>Halal-ID</th>
<th>Product Certificate #</th>
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</thead>
<tbody>
<tr>
<td>EXALTOLIDE®</td>
<td>502774</td>
<td>A65880</td>
<td>HC-17VIQL69</td>
</tr>
</tbody>
</table>

Company Name & Address: **Vigon International, Inc.** 127 Airport Road East Stroudsburg, Pennsylvania 18301 USA

This certificate is valid until January 31, 2019 and subject to renewal at that time.

Muhammad Munir Chaudry, Ph.D.
President

Page 1 of 1
Food Grade Certification

Product Name: EXALTOLIDE®

Vigon Code: 502774
FEMA #: 2840

Vigon International, Inc. certifies that the above flavor or ingredient is FDA/FEMA GRAS. We would like to assure you that we use only flavor ingredients that are listed as being generally recognized as safe (GRAS) on a reliable published industry association (FEMA) list and/or are approved for use in a regulation of the U.S. Food and Drug Administration. We hereby certify that this flavor or ingredient is safe for its intended use in food.

Vigon International, Inc. may terminate this certification at any time upon written notice in which this certification shall be null and void as to any material supplied after termination of the certification.

Sincerely,

Amanda Moyer
Product Documentation Coordinator
Date of Issue: February 23, 2018
Allergen/Sensitive Agents Identification Sheet

**Product Name:** EXALTOLIDE®

**Vigon Code:** 502774

* A check mark (✓) indicates the Allergen/Sensitive Agent is present. If blank it means that there is no Allergen/Sensitive present.

<table>
<thead>
<tr>
<th>ALLERGEN/SENSITIVE AGENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CORN &amp; CORN PRODUCTS</strong></td>
</tr>
</tbody>
</table>
| Includes modified starch, hydrolyzed protein, sweeteners, sugars, spice carriers | ✓  
| **EGG & EGG PRODUCTS**                             |  
| liquid and powders                                 |  
| **FISH**                                           |  
| Includes any and all species of fresh and salt water fish | ✓  
| **GARLIC**                                         |  
| Dehydrated, powdered, granules, and flakes        | ✓  
| **GLUTEN**                                         |  
| Wheat, rye, barley, oats, flour, etc.              | ✓  
| **MILK & DAIRY PRODUCTS**                          |  
| Includes whey, lactose, cheese, casein, spice carriers, milk, cream, etc. | ✓  
| **MONOSODIUM GLUTAMATE**                           |  
|                                                    |  
| **PEANUTS, PEANUT OIL & PEANUT DERIVED ITEMS**     |  
| Peanut meal, flour & ground nuts, szechwan sauce, mandelona nuts, etc. | ✓  
| **SESAME SEEDS & SESAME OIL**                      |  
|                                                    |  
| **CRUSTACEANS**                                    |  
| Shrimp, lobster, rock lobster, crab, crayfish, and products made from them | ✓  
| **MOLLUSKS**                                       |  
| Clams, mussels, oysters, scallops, and products made from them | ✓  
| **SOY**                                            |  
| Includes soya powder, protein, oil, lecithin, tofu | ✓  
| **SULFITES**                                       |  
| Includes sulfur dioxide, sodium dithionite, chemicals that lists sulfite, etc. | ✓  
| **TREE NUTS**                                      |  
| Includes almonds, beechnuts, bazil nuts, nutmeg, cashews, chestnuts, etc. | ✓  
| **WHEAT**                                          |  
| Includes hydrolyzed wheat protein, flour, gluten flour, starches | ✓  
| **MUSTARD & MUSTARD OIL**                          |  
|                                                    |  
| **LUPIN**                                          |  
|                                                    |  
| **CELERY**                                         |  
|                                                    |  

Vigon International, Inc. follows Good Manufacturing Practices and has implemented HACCP systems. Our personnel are trained on the proper handling of allergenic materials.

Sincerely,

Amanda Moyer  
Product Documentation Coordinator

Date of Issue: February 23, 2018
GMO Status Statement

Product Name: EXALTOLIDE®

Vigon Code: 502774

Vigon International, Inc. declares that the product listed above is not derived from or produced using genetically modified organisms or their derivatives.

Sincerely,

Amanda Moyer
Product Documentation Coordinator
Date of Issue: February 23, 2018
Irradiation and Sewage Sludge Statement

Product Name: EXALTOLIDE®

Vigon Code: 502774

Vigon International, Inc. declares that the product listed above has not been:

a) Exposed to Ionizing Radiation
b) Derived from Sewage Sludge
c) Treated with Ethyl Oxide

Vigon International, Inc. may terminate this statement at any time upon written notice in which this statement shall be null and void as to any material supplied after termination of the statement.

Sincerely,

Amanda Moyer
Product Documentation Coordinator
Date of Issue: February 23, 2018
Heavy Metals and Pesticide Statement

**Product Name:** EXALTOLIDE®

**Vigon Code:** 502774

Vigon International, Inc. declares that, to the best of our knowledge and belief, all ingredients in the product listed above are listed as being generally recognized as safe (GRAS) by the Food and Drug administration (FDA) when used in accordance with the FDA's good manufacturing practices (GMP) and contain no residues of heavy metals and pesticides in excess of tolerances set by the FDA and the Environmental Protection Agency (EPA).

Sincerely,

Amanda Moyer  
Product Documentation Coordinator  
Date of Issue: February 23, 2018
Continuing Product Guarantee

Product Name: EXALTOLIDE®

Vigon Code: 502774

In accordance with the regulations promulgated under the Federal Food, Drug, and Cosmetic Act, Vigon International, Inc. hereby provides continuing guarantee for the item listed above.

The article(s) comprising each shipment or other delivery hereafter made by Vigon International, Inc. is hereby guaranteed, as of the date of shipment or delivery, to be, on such date, not adulterated or misbranded within the meaning of the Federal Food, Drug, and Cosmetic Act, and not an article which may not, under the provisions of section 404, 505, or 512 of the act, be introduced into interstate commerce.

The guarantee herein given shall be a continuing guarantee and shall remain in full force and effect until revoked in writing by the undersigned. This guarantee shall not limit or preclude the operation and effect of any and all provisions of any agreement(s) under which the articles covered by this guarantee are sold, and the provisions of such agreement(s) shall govern in the event of any conflict or inconsistency herewith. Supplier's liability for breach of this guarantee shall in no event exceed the value of such of the articles of the supplier shipped to or on the order of Purchaser hereunder as may fail to comply with this guarantee.

This guarantee shall be void and of no effect in any instance where the particular use by Purchaser of any article to which this guarantee would otherwise apply is a use which is not in accordance with the requirements of the Federal Food, Drug and Cosmetic Act. Any and all prior guarantees and/or indemnity agreements heretofore given by supplier, are hereby revoked.

Sincerely,

Amanda Moyer
Product Documentation Coordinator
Date of Issue: February 23, 2018
Dietary Preferences & Restrictions

Product Name: EXALTOLIDE®

Vigon Code: 502774

Vigon International, Inc. certifies that the product listed above is suitable for consumption by:

<table>
<thead>
<tr>
<th>Dietary Preference</th>
<th>Restrictions</th>
<th>Suitability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegans</td>
<td>Do not eat meat, poultry, fish/seafood, eggs, dairy products, honey</td>
<td>✅</td>
</tr>
<tr>
<td>Lacto-Vegetarians</td>
<td>Do not eat meat, poultry, fish/seafood, eggs, but do eat dairy products</td>
<td>✅</td>
</tr>
<tr>
<td>Ovo-Vegetarians</td>
<td>Do not eat meat, poultry, fish/seafood, dairy products, but do eat eggs</td>
<td>✅</td>
</tr>
<tr>
<td>Vegetarians</td>
<td>Do not eat meat, poultry, fish/seafood, but do eat dairy products and eggs</td>
<td>✅</td>
</tr>
</tbody>
</table>

Sincerely,

Amanda Moyer
Product Documentation Coordinator
Date of Issue: February 23, 2018
Animal Testing Statement

Product Name: EXALTOLIDE®

Vigon Code: 502774

Vigon International, Inc. is not in the practice of performing or commissioning animal testing on its finished products and actively evaluates the ingredients of its products through non-animal testing methods and through computational (predictive) toxicology programs. However, some ingredients used in our products have been subjected to animal testing by the academic community, government agencies, or within the chemical industry.

Sincerely,

Amanda Moyer  
Product Documentation Coordinator  
Date of Issue: February 23, 2018
Proposition 65 Statement

Product Name: EXALTOLIDE®

Vigon Code: 502774

Vigon International, Inc. certifies that the product above is not listed on the California's Safe Drinking Water and Toxic Enforcement Act of 1986, also known as Proposition 65.

Sincerely,

Amanda Moyer
Product Documentation Coordinator
Date of Issue: February 23, 2018