Product Specification



Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

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

<u>Characteristic:</u> <u>Specification:</u>

Acid Value 0.000 3.000 Purity % 92.00 100.00

Gas Chromatograph PASSES TEST Odor MUSK ODOR.

Color/appearance WHITE TO PALE YELLOW 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: August 28, 2017

Printed Date: September 8, 2021



502775 EXALTOLIDE® TOTAL

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Version # 03 Print Date: 10-22-2018

1. IDENTIFICATION

Product Description: EXALTOLIDE® TOTAL

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

Other means of identification

Vigon Item # 502775

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.

570-476-6300

Recommended restrictions For Manufacturing Use Only

<u>Company</u> <u>24 Hour Emergency Response Information</u>

Vigon International, Inc. INFOTRAC (ACCT# 78928);

127 Airport Road 1-800-535-5053 WITHIN THE U.S.A.
E. Stroudsburg, PA 18301 1-352-323-3500 OUTSIDE THE U.S.A.

For information call: 570-476-6300

Web Site: www.vigon.com

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Vigon International, Inc.
Address 127 Airport Road

E. Stroudsburg, PA 18301

United States

Telephone For information call:

Website www.vigon.com
E-mail Not available.

Emergency phone number INFOTRAC (ACCT# 78928); 1-800-535-5053 WITHIN THE U.S.A.

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

2. 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, Category 1

acute hazard

Hazardous to the aquatic environment, Category 1

long-term hazard

Label elements





502775 EXALTOLIDE® TOTAL

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Signal word Warning

Hazard statement Causes mild skin irritation. May cause an allergic skin reaction. Very toxic to aquatic life. 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 Store away from incompatible materials.

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

<u>*</u> <u>*</u>		<u></u>
PENTADECALACTONE Dxacyclohexadecan-2-one Pentadecan-15-olide DMEGA-PENTADECALACTONE	106-02-5	100
	PENTADECALACTONE Dxacyclohexadecan-2-one Pentadecan-15-olide	Dxacyclohexadecan-2-one Pentadecan-15-olide

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

Mild skin irritation. May cause an allergic skin reaction. Dermatitis. Rash.

delayed
Indication of immediate medical

Not available.

attention and special treatment

needed

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.



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Unsuitable extinguishing media

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

General fire hazards

Do not use a solid water stream as it may scatter and spread fire.

Fire may produce irritating, corrosive and/or toxic gases.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.

Use water spray to cool unopened containers.

Static charges generated by emptying package in or near flammable vapor may cause flash fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up 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.

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

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

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 discharges. 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.



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8. EXPOSURE CONTROLS/PERSONAL 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. Solid. **Form**

Color Refer to Spec Sheet

Odor Characteristic. Odor threshold Not available. Not available. pН

93.2 - 100.4 °F (34 - 38 °C) Melting point/freezing point Initial boiling point and boiling 278.6 °F (137 °C) at 2 mmHg

range

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



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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

Density 990.00 kg/m³ at 22 °C

Explosive properties Not explosive.

Flammability class Combustible IIIB estimated

Molecular formulaC15H28O2Molecular weight240.39 g/molOxidizing propertiesNot oxidizing.

10. STABILITY AND REACTIVITY

ReactivityThe 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

Mild skin irritation. May cause an allergic skin reaction. Dermatitis. Rash. Not available.

Information on toxicological effects

Acute toxicity



502775 EXALTOLIDE® TOTAL

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Print Date: 10-22-2018 Version #03

Product Test Results Species

16- oxacyclohexadecan-1-one (CAS 106-02-5)

Acute

Dermal

LD50 Rabbit > 5000 mg/kg

Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Causes mild skin irritation.

> Irritation (dermal, rabbit)(LD50 study): slight irritant @ 100% Irritation (dermal, mouse)(photoxicity 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

Direct contact with eyes may cause temporary irritation. 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 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

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.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.



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12. ECOLOGICAL INFORMATION

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Product Species Test Results

16- oxacyclohexadecan-1-one (CAS 106-02-5)

Aquatic

 Crustacea
 EC50
 Daphnia magna
 > 1.27 mg/l, 48 hours

 Fish
 LC50
 Fish
 > 0.11 mg/l, 96 hours

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 regulationsDispose 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

UN number 307

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

ADR

UN number 3077

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (16-

oxacyclohexadecan-1-one)

9

Transport hazard class(es)



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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 pollutantYesPackaging exceptions155Packaging bulk240Labels required9

DOT

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

Not applicable.

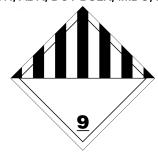


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ADN; ADR; DOT BULK; IMDG; RID



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 1910.1001-1052)

Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard Acute toxicity (any route of exposure) categories Respiratory or skin sensitization

SARA 313 (TRI reporting)

Not regulated.



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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

Not regulated.

(SDWA)

US state regulations

California Proposition 65

California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

 Issue date
 06-06-2017

 Revision date
 10-22-2018

Version # 03

HMIS® 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, and disposal and should not be considered as a guarantee or quality specification. This product has not been evaluated for safe use in e-cigarettes or any vaping application where the product(s) is/are intentionally vaporized and inhaled. Vigon International, Inc. has performed no testing on these products in e-cig/vaping applications. It is the sole responsibility of the individual(s) purchasing this product to assess its' safety in the final application. 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.



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Revision information Product and Company Identification: Alternate Trade Names

IDENTIFICATION: Recommended restrictions HAZARD(S) IDENTIFICATION: Hazard statement

HAZARD(S) IDENTIFICATION: Response

COMPOSITION/INFORMATION ON INGREDIENTS: Component information

Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data TOXICOLOGICAL INFORMATION: Carcinogenicity

Ecological Information: Ecotoxicity

REGULATORY INFORMATION: California Proposition 65

OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION: Reference

s OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION:

Disclaimer



Date: September 6, 2021 כ"ט בָּאֱלוּל תשפ"א Kof-K ID: K-0000507 Certificate ID: IBBZU-V6269

Product Count: 1

Kosher Certificate



This certificate is valid through

12/31/2021

Vigon International, LLC 127 AIRPORT RD. EAST STROUDSBURG, PA 18301 UNITED STATES

The following product(s) Manufactured By Vigon International, LLC are certified kosher with the listed restrictions.

Product Code	Product Name	Status	Restriction	UKD#
502775	EXALTOLIDE TOTAL	Parve	Kof-K symbol required	KFX6STT7XGQ



To verify or for the most up to date certificate please go to www.koshercertificate.com 201 The Plaza, Teaneck, NJ 07666 | Phone 201.837.0500 | fax 201.837.0126





شهادة حلال FANCA HALAL PRODUCT CERTIFICATE

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: **January 25, 2021**

Document #: 6718.12506.II216420

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

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

Product Name Product Code Halal-ID Product Certificate #

1. EXALTOLIDE® TOTAL 502775 B24647 HC-21VID546

Muhammad Munir Chaudry, Ph.D. President





This Certificate is valid until **January 31, 2022** and subject to renewal at that time.



Page 1 of 1

Food Grade Certification



Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

FEMA #: 2840

Vigon International, LLC. certifies that the above flavor or ingredient is Food Grade in accordance with at least one of the following recognized organizations:

FDA/FEMA GRAS (Flavor and Extract Manufacturers Assoc. Generally Recognized as Safe)

JECFA (Joint FAO/WHO Expert Committee on Food Additives)

CoE (Council of Europe)

FLAVIS (Assigned by EFSA – European Food Safety Authority)

As a US based company, we have included the FEMA Number on this certificate however, the remaining numbers can be provided upon request. We hereby certify that this flavor or ingredient is safe for its intended use in food.

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

Sincerely,

Allergen/Sensitive Agents Identification Sheet



Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

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

ALLERGEN/SENSITIVE AGENTS	*
CORN & CORN PRODUCTS	
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, LLC. follows Good Manufacturing Practices and has implemented HACCP systems. Our personnel are trained on the proper handling of allergenic materials.

Sincerely,

GMO Status Statement



Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

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

Sincerely,

Ingredient Statement



Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

CAS #: 106-02-5 16- oxacyclohexadecan-1-one 100%

Sincerely,

Irradiation and Sewage Sludge Statement



Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

Vigon International, LLC. declares that the product listed above has <u>not</u> been:

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

Vigon International, LLC. 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,

Heavy Metals and Pesticide Statement



Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

Vigon International, LLC. 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,

Stabilizer Statement



Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

Vigon International, LLC. declares that, to the best of our knowledge that the product listed above has not been treated with BHT, BHA, Tocopherols or any other stabilizer.

Vigon International, LLC. 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,

Continuing Product Guarantee



Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

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

The article(s) comprising each shipment or other delivery hereafter made by Vigon International, LLC. 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,

Dietary Preferences & Restrictions



Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

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

Vegans Do not eat meat, poultry, fish/seafood,eggs,dairy products, honey	
Lacto-Vegetarians Do not eat meat, poultry, fish/seafood, eggs, but do eat dairy products	•
Ovo-Vegetarians Do not eat meat, poultry, fish/seafood, dairy products, but do eat eggs	~
Vegetarians Do not eat meat, poultry, fish/seafood, but do eat dairy products and eggs	•

Sincerely,

Animal Testing Statement



Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

Vigon International, LLC. 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,

Proposition 65 Statement



Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

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

Sincerely,

EU Declaration



Vigon Code: 502775

Product Name: EXALTOLIDE® TOTAL

The product listed above is acceptable and/or approved for use in the European Union. Below is the flavoring status based on European Regulation 2008/1334/EC.

	Flavouring Preparation
	Natural Flavouring Substance
~	Flavouring Substance
	Thermal Process Flavouring
	Smoke Flavouring
	Flavour Precursor
	Other Flavouring
	Not Applicable: Contains no ingredients whose use is intended primarily for flavour.
	Not Permitted: Contains ingredient(s) which are not permitted in flavours in the EU.

Sincerely,

Nanomaterials



Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

We hereby confirm, to the best of our knowledge, that the above referenced product has not been formulated with engineered nanomaterials.

"Engineered nanomaterial" means any intentionally producted material that has one or more dimensions of the order of 100 nm or less or that is composed of discrete functional parts, either internally or at the surface, many of which have one or more dimensions of the order of 100 nm or less, including structures, agglomerates or aggregates, which may have a size above the order of 100nm but retain properties that are characteristic of the nanoscale.

Sincerely,

Transmissible Spongiform Encephalopathy (TSE) and Bovine



Spongiform Encephalopathy (BSE) Statement

Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

Vigon International, LLC. products are manufactured wholly from synthetic, natural or manufactured materials and do not contain any raw materials produced from or substances derived of animal origin. Moreover, these products do not contain, and are not derived from, specified risk material as defined in Commission Decision 97/534/EC or mechanically recovered meat obtained from the vertebral column of bovine, ovine or caprine animals.

The manufacturing process does not use any ingredient of animal origin nor do our products come in contact with animal products during storage and transportation.

We further declare that our products are Dioxin Free.

Therefore, to the best of our knowledge the product listed above are free from Transmissible Spongiform Encephalopathy (TSE) and Bovine Spongiform Encephalopathy (BSE).

Vigon International, LLC. 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,

Vigon Regulatory Department regulatory@vigon.com

Date of Issue: September 8, 2021

IFRA



Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

We certify that the above material contains the following restricted substance restricted by IFRA Standards:

16-oxacyclohexadecan-1-one (CAS 106-02-5) 100%

- is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA 50th amendment), depending on the application and the percentage of use in the final product.

The IFRA Standards regarding use restriction are based on safety assessments by the Panel of Experts of the Research Institute for Fragrance Materials (RIFM) and are enforced by the IFRA Scientific Committee.

It is the ultimate responsibility of our customer to ensure the safety of the final product by further testing if need be.

International Inventories



Yes

Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

Country(s) or region Inventory name On inventory (yes/no)*

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in Chine (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Japan	Invntory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

United States & Puerto Rico Toxic Substances and Control Act (TSCA) Inventory

Sincerely,

Vigon Regulatory Department regulatory@vigon.com

Date of Issue: September 8, 2021

Residual Solvents



Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

Based on our knowledge of our production process, raw materials and equipments used we do not expect residual solvents to be present.

Sincerely,

EU Fragrance Allergen Statement



Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

The product listed above is in compliance with the European Directive 76/768/EEC established by the SCCNFP declared allergens. This product is free of these fragrance allergens.

Sincerely,

Melamine Statement



Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

Based on our knowledge of our production process, raw materials and equipment used we do not expect melamine to be present.

Sincerely,

Phthalate Statement



Product Name: EXALTOLIDE® TOTAL

Vigon Code: 502775

We've performed a risk assessment on our product contact plastics which include tubes, joints, caps, pumps, as well as packaging (e.g. plastic wraps and bags) and can confirm that our plastic products do not contain certain phthalate esters (most notably bis-2-Ethylhexyl phthalate[DEHP] and dibutyl phthalate [DBP]).

Sincerely,



Code: 502775

Vigon International, LLC. 127 Airport Road East Stroudsburg, PA 18301-9629 USA +1.570.476.6300 | sales@vigon.com

ID#: EXAMPLE

Country of Origin:

USA

Chemical Name: oxacyclohexadecan-1-one

106-02-5 CAS#:

> 200°F (93°C) Flash Point:

No Allergens Allergens:

Liters: 0.000

0.000 | Produced on: N/A Approx. Gross: 0.000

LB

0.000 0.000 | Best used before: N/A Approx. Tare:

EXAMPLE Net: 0.000 Lot #: 0.000

KG

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.

EXALTOLIDE® TOTAL

INSTRUCTIONS FOR USE: Ask your employer for guidance regarding the safe use and handling of this product in your specific workplace environment based on the information provided in Vigon's Safety Data Sheet (SDS).

HAZARD STATEMENT: Causes mild skin irritation. May cause an allergic skin reaction. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.PRECAUTIONAR Y S T A T E M E N T : -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- Store away from incompatible materials.-DISPOSAL-Dispose of contents/container in accordance with local/regional/national/international regulations.

