

500267 OCTALACTONE GAMMA FCC

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1. IDENTIFICATION **Product Description:** OCTALACTONE GAMMA FCC CAS# 104-50-7 2796 **FEMA Number** Other means of identification Vigon Item # 500267 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 24 Hour Emergency Response Information Vigon International, LLC INFOTRAC (ACCT# 78928); 1-800-535-5053 WITHIN THE U.S.A. 127 Airport Road 1-352-323-3500 OUTSIDE THE U.S.A. E. Stroudsburg, PA 18301 For information call: 570-476-6300 Web Site: www.vigon.com Manufacturer/Importer/Supplier/Distributor information Manufacturer Company name Vigon International, LLC Address 127 Airport Road E. Stroudsburg, PA 18301 United States 570-476-6300 Telephone For information call: Website www.vigon.com E-mail regulatory@vigon.com **INFOTRAC** Emergency phone number (ACCT# 78928); 1-800-535-5053 WITHIN THE U.S.A. OUTSIDE THE U.S.A. 1-352-323-3500 2. HAZARD(S) IDENTIFICATION Physical hazards Not classified. Health hazards Acute toxicity, oral Category 5 **Environmental hazards** Not classified. Label elements Hazard symbol None. Signal word Warning Hazard statement May be harmful if swallowed. Precautionary statement Prevention Observe good industrial hygiene practices. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Call a POISON Response CENTER/doctor if you feel unwell. Store away from incompatible materials. Storage



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Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	100% of the substance consists of component(s) of unknown acute dermal toxicity. 100% of the substance consists of component(s) of unknown acute inhalation toxicity. 100% of the substance consists of component(s) of unknown acute hazards to the aquatic environment. 100% of the substance consists of component(s) of unknown long-term hazards to the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Chemical name	Common name and synonyms	CAS number	%
OCTALACTONE GAMMA	gamma- octanolactone Octan-4-olid 4-HYDROXYOCTANOIC ACID LACTON E 5- butyloxolan-2-one 4-OCTANOLIDE	104-50-7	100

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	Direct contact with eyes may cause temporary irritation.
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.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from	Fire may produce irritating, corrosive and/or toxic gases.
the chemical	



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Special protective equipment and precautions for firefighters	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.
Fire fighting equipment/instructions	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.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	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	Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Keep unnecessary personnel away. 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	Collect and dispose of spillage as indicated in section 13 of the SDS.
	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. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).
	Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Prevent product from entering drains.
	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. 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.
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.

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.



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Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles). Wear safety glasses with side shields (or goggles). Face shield is recommended.
Skin protection Hand protection	Chemical resistant gloves.
hand protection	Chemical resistant gioves.
Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Keep away from food and drink. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Refer to Spec Sheet
Physical state	Liquid.
Form	Liquid.
Color	Refer to Spec Sheet
Odor	Characteristic.
Odor threshold	Not available.
рH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling	453.2 °F (234 °C)
range	
Flash point	> 200.0 °F (> 93.3 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explo	sive limits
Upper/lower flammability or explo Explosive limit - lower (%)	sive limits Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - lower (%) Explosive limit - upper (%)	Not available. Not available.
Explosive limit - lower (%) Explosive limit - upper (%) Vapor pressure	Not available. Not available. 0.04 mm Hg at 25 °C
Explosive limit - lower (%) Explosive limit - upper (%) Vapor pressure Vapor density	Not available. Not available. 0.04mm Hg at 25 °C 4.9
Explosive limit - lower (%) Explosive limit - upper (%) Vapor pressure Vapor density Relative density	Not available. Not available. 0.04mm Hg at 25 °C 4.9
Explosive limit - lower (%) Explosive limit - upper (%) Vapor pressure Vapor density Relative density Solubility(ies) Solubility(water) Partition coefficient	Not available. Not available. 0.04mm Hg at 25 °C 4.9 Not available.
Explosive limit - lower (%) Explosive limit - upper (%) Vapor pressure Vapor density Relative density Solubility(ies) Solubility(ies) Partition coefficient (n-octanol/water)	Not available. Not available. 0.04 mm Hg at 25 °C 4.9 Not available. Insoluble
Explosive limit - lower (%) Explosive limit - upper (%) Vapor pressure Vapor density Relative density Solubility(ies) Solubility(water) Partition coefficient	Not available. Not available. 0.04 mm Hg at 25 °C 4.9 Not available. Insoluble
Explosive limit - lower (%) Explosive limit - upper (%) Vapor pressure Vapor density Relative density Solubility(ies) Solubility(ies) Partition coefficient (n-octanol/water)	Not available. Not available. 0.04 mm Hg at 25 °C 4.9 Not available. Insoluble Not available.
Explosive limit - lower (%) Explosive limit - upper (%) Vapor pressure Vapor density Relative density Solubility(ies) Solubility(ies) Partition coefficient (n-octanol/water) Auto-ignition temperature	Not available. Not available. 0.04 mm Hg at 25 °C 4.9 Not available. Insoluble Not available. Not available.



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Other information	
Density	0.97 g/cm3 estimated at 25 $^\circ\text{C}$
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Molecular weight	142.2 g/mol
Oxidizing properties	Not oxidizing.
Specific gravity	0.97 at 25 °C

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

information on likely routes of ex	kposure		
Inhalation	Knowledge about health I	nazard is incomplete.	
Skin contact	Causes mild skin irritatior	I.	
Eye contact	Knowledge about health I	nazard is incomplete. Causes mild eye irritation.	
Ingestion	May be harmful if swallow	ved.	
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.		
Information on toxicological effe	cts		
Acute toxicity	May be harmful if swallow	ved.	
Product	Species	Test Results	
OCTALACTONE GAMMA (CAS	5 104-50-7)		
Acute			
Oral			
LD50	Rat	4400 mg/kg	
Skin corrosion/irritation	Due to partial or complete	Due to partial or complete lack of data the classification is not possible.	
Serious eye damage/eye irritation	Due to partial or complete	Due to partial or complete lack of data the classification is not possible.	
Respiratory or skin sensitization			
Respiratory sensitization	Due to partial or complete	e lack of data the classification is not possible.	
Skin sensitization	Due to partial or complete	e lack of data the classification is not possible.	
Germ cell mutagenicity	Due to partial or complete	e lack of data the classification is not possible.	



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Carcinogenicity	Due to partial or complete lack of data the classification is not possible.	
IARC Monographs. Overall E	Evaluation of Carcinogenicity	
Not listed.		
OSHA Specifically Regulated	d Substances (29 CFR 1910.1001-1053)	
Not listed.		
US. National Toxicology Pro	gram (NTP) Report on Carcinogens	
Not listed.		
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.	
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.	
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.	
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.	
12. ECOLOGICAL INFORMATION		

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this substance.
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

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.



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DOT

BULK

Not regulated as dangerous goods.

DOT

NON-BULK

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

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 Not regulated. (SDWA)

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



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Revision Date: 05-11-2023 Page 8 of 8 Print Date: 05-11-2023 Version # 03 **Revision date** 05-11-2023 Version # 03 **HMIS®** ratings Health: 1 Flammability: 1 Physical hazard: 0 List of abbreviations ACGIH: American Conference of Governmental Industrial Hygienists. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. CAS: Chemical Abstract Service. IARC: International Agency for Research on Cancer. IATA: International Air Transport Association. IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk. IMDG: International Maritime Dangerous Goods. MARPOL: International Convention for the Prevention of Pollution from Ships. RID: Regulations concerning the International Carriage of Dangerous Goods by Rail. STEL: Short term exposure limit. TWA: Time Weighted Average. Disclaimer Vigon International, LLC 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. **Revision information** This document has undergone significant changes and should be reviewed in its entirety.