

502631 CLARITONE®

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1. IDENTIFICATION

I. IDENTIFICATION			
Product Description:	CLARITONE®		
CAS#	74338-72-0		
Other means of identification			
Vigon Item #	502631		
Recommended use	Concentrated aromatic ing IFRA guidelines.	Concentrated aromatic ingredient which may be used fragrance compounds according to legal and IFRA guidelines.	
Recommended restrictions	For Manufacturing Use On	ly	
<u>Company</u>		24 Hour Emergency Response Information	
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: 570-476-63	300		
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:	570-476-6300	
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.	

Physical hazardsFlammable liquidsCategory 4Health hazardsAcute toxicity, oralCategory 5Acute toxicity, dermalCategory 5Skin corrosion/irritationCategory 2Environmental hazardsHazardous to the aquatic environment,
long-term hazardCategory 2

Label elements





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Hazard statement	Combustible liquid. May be harmful if swallowed or in contact with skin. Causes skin irritation. Toxic to aquatic life with long lasting effects.	
Precautionary statement		
Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.	
Response	IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.	
Storage	Store in a well-ventilated place.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	100% of the mixture consists of component(s) of unknown acute inhalation toxicity. 100% of the	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

_	Chemical name	Common name and synonyms	CAS number	%
	2,4,4,7-tetramethyloct-6-en-3-one	2,4,4,7-tetramethyl-6-octen-3-one 6-Octen-3-one, 2,4,4,7-tetramethyl-	74338-72-0	100

mixture consists of component(s) of unknown acute hazards to the aquatic environment.

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. Skin irritation. May cause redness and pain.
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 Unsuitable extinguishing media Water spray, fog, CO2, dry chemical, or alcohol resistant foam. Do not use a solid water stream as it may scatter and spread fire.



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Specific hazards arising from the chemical	Fire may produce irritating, corrosive and/or toxic gases.	
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 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

General fire hazards

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 Biological limit values Appropriate engineering controls	This substance has no PEL, TLV, or other recommended exposure limit. No biological exposure limits noted for the ingredient(s). 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, su Eye/face protection	ch as personal protective equipment Wear safety glasses with side shields (or goggles).
Skin protection Hand protection	Chemical resistant gloves.
Other	Not available.
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	When using do not smoke. 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

3. I TH SIGAL AND CHEIM	
Appearance	Refer to Spec Sheet
Physical state	Liquid.
Form	Liquid.
Color	Refer to Spec Sheet
Odor	Characteristic.
Odor threshold	Not available.
pН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	363.2 °F (184 °C)
Flash point	174.0 °F (78.9 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
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	0.01 mm Hg at 20 °C
Vapor density	6.3



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Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Flammability class	Combustible IIIA estimated
Molecular formula	C12H22O
Molecular weight	182.31 g/mol
Oxidizing properties	Not oxidizing.
Specific gravity	0.85 at D20/4

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 heat, sparks, open flames and other ignition sources. 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 May be harmful in contact with skin. Causes skin irritation.		May be harmful in contact with skin. Causes skin irritation.
	Eye contact	Direct contact with eyes may cause temporary irritation. Causes mild eye irritation.
	Ingestion	May be harmful if swallowed.
	Symptoms related to the physical, chemical and toxicological characteristics	Skin irritation. May cause redness and pain.
	Information on toxicological effects	

Acute toxicity

May be harmful in contact with skin. May be harmful if swallowed.



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Product	Species		Test Results
2,4,4,7-tetramethyloct-6-en-3-or	ne (CAS 74338	3-72-0)	
Acute			
Dermal			
LD50	Rat		> 2000 mg/kg OECD 402
Oral			
LD50	Rat		> 2000 mg/kg OECD 401
Skin corrosion/irritation	Causes sl	kin irritation.	
Serious eye damage/eye rritation	Direct con	tact with eyes may cause temporary irrit	ation.
Respiratory or skin sensitization			
Respiratory sensitization	Not a resp	viratory sensitizer.	
Skin sensitization	This produ	uct is not expected to cause skin sensitiz	ation.
Germ cell mutagenicity No data available to indicate product or any components present a mutagenic or genotoxic.		onents present at greater than 0.1% are	
Carcinogenicity			
IARC Monographs. Overall	Evaluation of	Carcinogenicity	
Not listed.			
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) Not regulated.			
US. National Toxicology Pro	ogram (NTP) F	Report on Carcinogens	
Not listed.			
	ulated Substa	nces (29 CFR 1910.1001-1050)	
Not available.			
Reproductive toxicity	-	uct is not expected to cause reproductive	e or developmental effects.
Specific target organ toxicity - single exposure	Not classi	fied.	
Specific target organ toxicity - repeated exposure	Not classi	fied.	
Aspiration hazard	Not an as	piration hazard.	
12. ECOLOGICAL INFOR	MATION		
Ecotoxicity	Toxic to a	quatic life with long lasting effects.	
Product		Species	Test Results
2,4,4,7-tetramethyloct-6-en-	-3-one (CAS 7	4338-72-0)	
Aquatic			
Fish	EC50	Zebrafish (Brachydanio rerio)	11.1 mg/l, 24 h
Persistence and degradability	-	ability: Closed bottle test, OECD 301-D ot readily biodegradable	(BOD[28]/COD);

Bioaccumulative potential

0%

No data available.



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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 CONSIDER	RATIONS	
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

AD	'IN	
	UN number	3082
	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(2,4,4,7-tetramethyloct-6-en-3-one)
	Transport hazard class(es)	9
	Subsidiary class(es)	-
	Packing group	III
	Environmental hazards	Yes
	Labels required	9
AD	R	
	UN number	3082
	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(2,4,4,7-tetramethyloct-6-en-3-one)
	Transport hazard class(es)	9
	Subsidiary class(es)	-
	Packing group	III
	Environmental hazards	Yes
	Labels required	9
RI	0	
	UN number	3082
	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(2,4,4,7-tetramethyloct-6-en-3-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.



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DOT

BULK		
UN number	NA1993	
Proper shipping name	COMBUSTIBLE LIQUID, N.O.S. (2,4,4,7-tetramethyloct-6-en-3-one)	
Hazard class	Combustible liq	
Packing group	III	
Environmental hazards		
Marine pollutant	Yes	
Packaging exceptions	150	
Packaging bulk	241	
Labels required	None	
DOT		
NON-BULK		
Not regulated as dangerous goods.		
ΙΑΤΑ		
Not regulated as dangerous goods.		
IMDG		
UN number	3082	
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	
	(2,4,4,7-tetramethyloct-6-en-3-one)	
Transport hazard class(es)	9	
Subsidiary class(es)	-	
Packing group	III	
Environmental hazards		
Marine pollutant	Yes	
Labels required	9	
Transport in bulk according	Not applicable.	
to Annex II of MARPOL		
73/78 and the IBC Code		

ADN; ADR; IMDG; RID





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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 Substar	nce 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.		
	lotification (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 chemical	Yes	
Classified hazard categories	Flammable (gases, aerosols, liquids, or solids) Acute toxicity (any route of exposure) Skin corrosion or irritation	
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	Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	



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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	11-28-2015	
Revision date	05-29-2018	
Version #	02	
HMIS® ratings	Health: 2 Flammability: 2 Physical hazard: 0	
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 th	
Revision information	This document has undergone significant changes and should be reviewed in its entirety.	