

503229 ISOLONGIFOLANONE

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1. IDENTIFICATION		
Product Description:	ISOLONGIFOLANONE	
CAS #	23787-90-8	
Other means of identification Vigon Item #	503229	
Recommended use	Concentrated aromatic ing IFRA guidelines.	predient which may be used fragrance compounds according to legal and
Recommended restrictions	For Manufacturing Use Or	nly
<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.

2. HAZARD(S) IDENTIFICATION

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 5
	Skin corrosion/irritation	Category 2
	Sensitization, skin	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2

Label elements





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Signal word	Warning
Hazard statement	May be harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Wash thoroughly after handling. 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. Call a POISON CENTER/doctor if you feel unwell. 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	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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Chemical name	Common name and synonyms	CAS number	%
2,2,7,7-TETRA METHYL	2H-2,4a-Methano naphthalen- 8(5H)-one, 23787-90-8 100		100
TRICYCLO [6.2.1.0^{1,6}]	1,3,4,6,7,8a- hexahydro-1,1,5,5-t		
UNDECAN-5-ONE	1,3,4,6,7,8a- Hexahydro-		
	1,1,5,5-tetramethyl - 2H-2,4a-methanon		
	aphthalen -8(5H)-one		

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	Skin irritation. May cause redness and pain. 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.



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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.	
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.	
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.
	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.
	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.
	Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). 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.



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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. Keep container closed. Handle containers with care. Open slowly in order to control possible Conditions for safe storage, pressure release. Store in a cool, well-ventilated area. including any incompatibilities 8. EXPOSURE CONTROLS/PERSONAL PROTECTION This substance has no PEL, TLV, or other recommended exposure limit. Occupational exposure limits **Biological limit values** No biological exposure limits noted for the ingredient(s). Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation Appropriate engineering controls 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 not required. If ventilation is insufficient, suitable respiratory protection must **Respiratory protection** be provided. Thermal hazards Wear appropriate thermal protective clothing, when necessary. General hygiene considerations Wash hands after handling and before eating. Keep away from food and drink. Contaminated work clothing should not be allowed out of the workplace.

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.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	564.8 °F (296 °C)
Flash point	> 200.0 °F (> 93.3 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.



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Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.001 mm Hg at 20°C
Vapor density	7.6
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 IIIB estimated
Molecular formula	C15H24O
Molecular weight	220.36 g/mol 220.36 g/mol
Oxidizing properties	Not oxidizing.
Specific gravity	1.01 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		
Inhalation	Knowledge about health hazard is incomplete.	
Skin contact	Causes skin irritation. May cause an allergic skin reaction.	
Eye contact	Direct contact with eyes may cause temporary irritation. Causes mild eye irritation.	
Ingestion	May be harmful if swallowed.	



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Symptoms related to the physical, chemical and toxicological characteristics	Skin irritation. May cause re Rash.	dness and pain. May cause an allergic skin reaction. Dermatitis.	
Information on toxicological effect	cts		
Acute toxicity	May be harmful if swallowed	ł.	
Product	Species	Test Results	
2,2,7,7-TETRA METHYL TRICY	CLO [6.2.1.0^{1,6}] UNDECAN-	5-ONE (CAS 23787-90-8)	
Acute			
Oral			
LD50	Rat	2500 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Due to partial or complete la	ack of data the classification is not possible.	
Respiratory or skin sensitization			
Respiratory sensitization	Due to partial or complete la	Due to partial or complete lack of data the classification is not possible.	
Skin sensitization	May cause an allergic skin r	May cause an allergic skin reaction.	
Germ cell mutagenicity	Due to partial or complete la	Due to partial or complete lack of data the classification is not possible.	
Carcinogenicity	Due to partial or complete la	Due to partial or complete lack of data the classification is not possible.	
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Not listed.			
	d Substances (29 CFR 1910.10	01-1053)	
Not listed.	ogram (NTP) Report on Carcino	2020	
Not listed.	grain (NTF) Report on Carcino		
Reproductive toxicity	Due to partial or complete la	ack of data the classification is not possible	
Specific target organ toxicity -		Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible.	
single exposure			
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 INFOR	MATION		
Ecotoxicity	Toxic to aquatic life with lon	g lasting effects.	
Deviation of a degradability	-		

ECOLOXICITY	loxic to aquatic life with long lasting effects.
Persistence and degradability	No data is available on the degradability of this product.
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.



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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

ADN	N	
	UN number	3082
	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2,7,7-TETRA METHYL
		TRICYCLO [6.2.1.0^{1,6}] UNDECAN-5-ONE)
	Transport hazard class(es)	9
	Subsidiary class(es)	-
	Packing group	III
	Environmental hazards	Yes
	Labels required	9
ADF	र	
	UN number	3082
	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2,7,7-TETRA METHYL
		TRICYCLO [6.2.1.0^{1,6}] UNDECAN-5-ONE)
	Transport hazard class(es)	9
	Subsidiary class(es)	-
	Packing group	III
	Environmental hazards	Yes
	Labels required	9
RID		
	UN number	3082
	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2,7,7-TETRA METHYL
		TRICYCLO [6.2.1.0^{1,6}] UNDECAN-5-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	г	
BUL	.K	
	UN number	3082



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Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2,7,7-TETRA METHYL TRICYCLO [6.2.1.0^{1,6}] UNDECAN-5-ONE)
Hazard class	9
Packing group	
Environmental hazards	
Marine pollutant	Yes
Labels required	9
DOT	
NON-BULK	
Not regulated as dangerous g	goods.
ΙΑΤΑ	
Not regulated as dangerous of	goods.
IMDG	
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2,7,7-TETRA METHYL
	TRICYCLO [6.2.1.0^{1,6}] UNDECAN-5-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; DOT BULK; IMDG; R	D





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Marine pollutant



15. REGULATORY INFORMATION

13. INEGULATORT INTOR	MATION
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Toxic Substances Control Ac	t (TSCA)
TSCA Section 12(b) Exp	ort Notification (40 CFR 707, Subpt. D)
Not regulated.	
CERCLA Hazardous Substa	nce List (40 CFR 302.4)
Not listed.	
SARA 304 Emergency release	se notification
Not regulated.	
	I Substances (29 CFR 1910.1001-1053)
Not listed.	
Superfund Amendments and Rea SARA 302 Extremely hazard	
Not listed.	
SARA 311/312 Hazardous chemical	Yes
Classified hazard	Skin corrosion or irritation
categories	Respiratory or skin sensitization
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.

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

Issue date	11-25-2015
Revision date	10-30-2019



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HMIS® ratings	Health: 2 Flammability: 1 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.