

500872 BOISIRIS®

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1. IDENTIFICATION

1. IDENTIFICATION		
Product Description:	BOISIRIS®	
CAS #	68845-00-1	
Other means of identification		
Vigon Item #	500872	
Recommended use	Concentrated aromatic in IFRA guidelines.	gredient which may be used fragrance compounds according to legal and
Recommended restrictions	For Manufacturing Use O	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: 570-476-630	00	
Web Site: www.vigon.com		
Manufacturer/Importer/Supplier/I Manufacturer	Distributor information	
Company name	Vigon International, Inc.	
Address	127 Airport Road	
	E. Stroudsburg, PA 1830	1
	United States	
Telephone	For information call:	570-476-6300
Website E-mail	www.vigon.com Not available.	
E-mail	INFOTRAC	(ACCT# 78928);
Emergency phone number	1-800-535-5053	WITHIN THE U.S.A.
	1-352-323-3500	OUTSIDE THE U.S.A.
2. HAZARD(S) IDENTIFIC	ATION	
Physical hazards	Not classified.	
Health hazards	Acute toxicity, dermal	Category 5
Environmental hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	Warning	
Hazard statement	May be harmful in contact	t with skin.
Precautionary statement		
Prevention	Observe good industrial h	ygiene practices.
Response	Call a POISON CENTER/	/doctor if you feel unwell.
Storage	Store away from incompa	tible materials.
Disposal		idues in accordance with local authority requirements.
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Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	100% of the mixture consists of component(s) of mixture consists of component(s) of unknown a the mixture consists of component(s) of unknow	cute hazards to the aquatic e	environment. 100% of
3. COMPOSITION/INFORM	ATION ON INGREDIENTS		
Substances			
Chemical name	Common name and synonyms	CAS number	%
2-Ethoxy-2,6,6-trimethyl-9-met ebicyclo[3.3.1]nonane	hylen 4- ethoxy-4,8,8-trimethyl-9-methylidenebicyc ໄວ[ອີເມີດທັງກລາ,ඛ,ເຈຍtrimethyl-9-methylenebicy clo[3.3.1]nonane	68845-00-1	100
4. FIRST-AID MEASURES			
Inhalation	If breathing is difficult, remove to fresh air and k For breathing difficulties, oxygen may be neces persist.		-
Skin contact	Take off immediately all contaminated clothing. persists. Wash skin thoroughly with soap and w		tion develops and
Eye contact	Remove contact lenses, if present and easy to persists. Promptly wash eyes with plenty of wat		ritation develops and
Ingestion	Call a physician or poison control center immed the person is conscious). Do not induce vomitin 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 protect themselves. Show this safety data shee		e precautions to

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.



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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	EMEASURES
Personal precautions, protective equipment and emergency	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. procedures Methods and materials for Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the containment and cleaning up 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. Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local **Environmental precautions** authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if

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.

safe to do so. Do not contaminate water.

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.



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Individual protection measures, such as personal protective equipment

Eye/face protection	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	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.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling	512.6 - 514.4 °F (267 - 268 °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	
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 25 °C
Vapor density	7.7
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.



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Decomposition temperature	Not available.	
Viscosity	Not available.	
Other information		
Explosive properties	Not explosive.	
Flammability class	Combustible IIIB estimated	
Molecular formula	C15H26O	
Oxidizing properties	Not oxidizing.	
Specific gravity	0.93 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 e	exposure		
Inhalation	No adverse effects due to inhalation are ex	pected.	
Skin contact	May be harmful in contact with skin. Cause	s mild skin irritation.	
Eye contact	Causes mild eye irritation.		
Ingestion	Expected to be a low ingestion hazard.		
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause tempor	ary irritation.	
Information on toxicological effe	ects		
Acute toxicity	May be harmful in contact with skin.		
Product	Species	Test Results	
	Species hylenebicyclo[3.3.1]nonane (CAS 68845-00-1)	Test Results	
	•	Test Results	
2-Ethoxy-2,6,6-trimethyl-9-meth	•	Test Results	
2-Ethoxy-2,6,6-trimethyl-9-mether Acute	•	Test Results > 2000 mg/kg	
2-Ethoxy-2,6,6-trimethyl-9-meth Acute Dermal	hylenebicyclo[3.3.1]nonane (CAS 68845-00-1)		
2-Ethoxy-2,6,6-trimethyl-9-meth Acute Dermal LD50	hylenebicyclo[3.3.1]nonane (CAS 68845-00-1)		



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Serious eye damage/eye irritation	Eye irritation : Species: rabbit Mild eye irritation Method: OECD Test Guideline 405
Respiratory or skin sensitization	
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	Sensitisation : Skin sensitization guinea pig Result: Not sensitizing HRIPT Human Result: Not sensitizing at 2 % in Dimethyl phthalate
	Phototoxicity : Phototoxicity guinea pig Result:negative
Germ cell mutagenicity	Genotoxicity in vitro : Ames test negative
Carcinogenicity	
IARC Monographs. Overall I	Evaluation of Carcinogenicity
Not listed.	
OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-1052)
Not regulated.	
US. National Toxicology Pro	gram (NTP) Report on Carcinogens
Not listed.	
US. OSHA Specifically Regu	lated 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.
12. ECOLOGICAL INFORM	MATION

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.



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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

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

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.

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.



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	otification (40 CFR 707, Subpt. D)	
Not regulated.		
Superfund Amendments and Reau SARA 302 Extremely hazardo Not listed.		
SARA 311/312 Hazardous chemical	Yes	
Classified hazard categories	Acute toxicity (any route of exposure)	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
Clean Air Act (CAA) Section 1	12 Hazardous Air Pollutants (HAPs) List	
Not regulated.		
	12(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
US state regulations		
California Proposition 65		
•	- Carcinogens & Reproductive Toxicity (CRT): Listed substance	
Not listed.		
International Inventories		
Country(s) or region Australia	Inventory name	On inventory (yes/no)*
	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China -	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory 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
Taiwan	Taiwan Toxic Chemical Substances (TCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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



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16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION	
Issue date	12-01-2015
Revision date	01-30-2018
Version #	02
HMIS® ratings	Health: 1 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 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 relates only to 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
Revision information	This document has undergone significant changes and should be reviewed in its entirety.