



SAFETY DATA SHEET

503031 SAFRALEINE®

Revision Date: 10-23-2019

Page 1 of 10

Version # 02

Print Date: 10-23-2019

1. IDENTIFICATION

Product Description: SAFRALEINE®
CAS # 54440-17-4
FEMA Number 4556
Other means of identification
Vigon Item # 503031
Recommended use Concentrated aromatic ingredient which may be used fragrance compounds according to legal and IFRA guidelines.
Recommended restrictions For Manufacturing Use Only

Company

Vigon International, Inc.
127 Airport Road
E. Stroudsburg, PA 18301
For information call: 570-476-6300
Web Site: www.vigon.com

24 Hour Emergency Response Information

INFOTRAC (ACCT# 78928);
1-800-535-5053 WITHIN THE U.S.A.
1-352-323-3500 OUTSIDE THE U.S.A.

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
	Acute toxicity, dermal	Category 5
	Skin corrosion/irritation	Category 2
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3

SAFETY DATA SHEET

503031 SAFRALEINE®

Revision Date: 10-23-2019

Page 2 of 10

Version # 02

Print Date: 10-23-2019

Label elements



Signal word

Warning

Hazard statement

May be harmful if swallowed or in contact with skin. Causes skin irritation. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention

Wash thoroughly after handling. 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 occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

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 inhalation toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Chemical name	Common name and synonyms	CAS number	%
2,3,3-trimethyl-2H-inden-1-one	1H- inden-1-one, 2,3-dihydro-2,3,3-trimethyl 3,3,2- trimethyl-1-indanone 2,3- dihydro-2,3,3-trimethyl-1H-inden-1-one	54440-17-4	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

Skin irritation. May cause redness and pain.



SAFETY DATA SHEET

503031 SAFRALEINE®

Revision Date: 10-23-2019

Page 3 of 10

Version # 02

Print Date: 10-23-2019

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 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.



SAFETY DATA SHEET

503031 SAFRALEINE®

Revision Date: 10-23-2019

Page 4 of 10

Version # 02

Print Date: 10-23-2019

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. 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).
----------------------------	---

Skin protection

Hand protection	Chemical resistant gloves.
------------------------	----------------------------

Other	Wear suitable protective clothing.
--------------	------------------------------------

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	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.
-----------------------	----------------

pH	Not available.
-----------	----------------

Melting point/freezing point	Not available.
-------------------------------------	----------------

Initial boiling point and boiling range	Not available.
--	----------------

Flash point	> 200.0 °F (> 93.3 °C) Closed Cup
--------------------	-----------------------------------

Evaporation rate	Not available.
-------------------------	----------------

Flammability (solid, gas)	Not applicable.
----------------------------------	-----------------

SAFETY DATA SHEET

503031 SAFRALEINE®

Revision Date: 10-23-2019

Page 5 of 10

Version # 02

Print Date: 10-23-2019

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 25 °C

Vapor density 6

Relative density Not available.

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature 483.8 °F (251 °C)

Decomposition temperature Not available.

Viscosity Not available.

Other information

Explosive properties Not explosive.

Molecular formula C₁₂H₁₄O

Molecular weight 174.24 g/mol

174.24 g/mol

Oxidizing properties Not oxidizing.

Specific gravity 1.02 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 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.

SAFETY DATA SHEET

503031 SAFRALEINE®

Revision Date: 10-23-2019

Page 6 of 10

Version # 02

Print Date: 10-23-2019

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.

Product

Species

Test Results

2,3,3-trimethyl-2H-inden-1-one (CAS 54440-17-4)

Acute

Dermal

LD50

Rabbit

> 2000 mg/kg OECD Test Guideline 402

Oral

LD50

Rat

> 2000 mg/kg OECD Test Guideline 423

Skin corrosion/irritation

Causes skin irritation.

Species: rabbit

Skin irritation

Method: OECD Test Guideline 404

Serious eye damage/eye irritation

Direct contact with eyes may cause temporary irritation.

Species: rabbit

No eye irritation

Method: OECD Test Guideline 405

Respiratory or skin sensitization

Respiratory sensitization

Due to partial or complete lack of data the classification is not possible.

Skin sensitization

Due to partial or complete lack of data the classification is not possible.

HRIPT Human

Result: Not sensitizing

at 10% in Diethyl phthalate/ Ethanol

LLNA mouse

Result: Not sensitizing

Method: OECD Test Guideline 429

Phototoxicity

UV-VIS absorption spectra

Results: negative

SAFETY DATA SHEET

503031 SAFRALEINE®

Revision Date: 10-23-2019

Page 7 of 10

Version # 02

Print Date: 10-23-2019

Germ cell mutagenicity

Genotoxicity in vitro:

Ames test

negative

Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)

Chromosome aberration test in vitro

positive

Method: Mutagenicity (in vitro mammalian cytogenetic test)

Genotoxicity in vivo

Micronucleus test Species: mouse

Method: Mutagenicity (micronucleus test) Due to partial or complete lack of data the classification is not possible.

Carcinogenicity

Due to partial or complete lack of data the classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (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.

Target Organ Systemic Toxicant - Repeated exposure

Species: rat, male and female

NOAEL: 450 mg/kg

Method: OECD Test Guideline 407

Repeated dose (28 days) toxicity (oral)

Aspiration hazard

Due to partial or complete lack of data the classification is not possible.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Product

Species

Test Results

2,3,3-trimethyl-2H-inden-1-one (CAS 54440-17-4)

Aquatic

Acute

Crustacea

EC50

Daphnia magna

27 mg/l, 48 hours OECD Test Guideline 202

SAFETY DATA SHEET

503031 SAFRALEINE®

Revision Date: 10-23-2019

Page 8 of 10

Version # 02

Print Date: 10-23-2019

Persistence and degradability

Biodegradability
Result: Not readily biodegradable
0%
Method: OECD Test Guideline 301F
Result: Not inherently biodegradable
0%
Method: OECD Test Guideline 302C

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.

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.



SAFETY DATA SHEET

503031 SAFRALEINE®

Revision Date: 10-23-2019

Page 9 of 10

Version # 02

Print Date: 10-23-2019

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 chemical Yes

Classified hazard categories 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 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 11-23-2015

Revision date 10-23-2019

Version # 02

HMIS® ratings Health: 2
Flammability: 1
Physical hazard: 0



SAFETY DATA SHEET

503031 SAFRALEINE®

Revision Date: 10-23-2019

Page 10 of 10

Version # 02

Print Date: 10-23-2019

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.

Revision information

This document has undergone significant changes and should be reviewed in its entirety.