

SECTION 1 — IDENTIFICATION

Product identifier	Iso E Super
Veriscents SKU	ISO-E-SUPER
Chemical name	Ethanone, 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-
Synonyms	Octahydro tetramethyl naphthalenyl ethanone; OTNE; Iso E Super® (registered trade mark of International Flavors & Fragrances Inc.)
CAS No.	54464-57-2 / 68155-66-8 / 68155-67-9
EC No.	259-174-3
Recommended use	Fragrance ingredient. Supplied as a raw material for compounding perfume concentrates by trained or informed users.
Restrictions on use	Not for food, drug, or medicinal use. Not sold for direct application to skin in undiluted form. Not intended for consumer resale as supplied.
Supplier	Veriscents 30 N. Gould Street Sheridan, WY 82801 United States
Telephone	+1 877.863.7700
E-mail	support@veriscents.com
Web	veriscents.com
Regulatory contact	Regulatory Officer
Emergency telephone	+1 800.222.1222 — Poison Help (US national poison control) Staffed 24 hours a day, 7 days a week; routes to the caller's regional poison center. Provides medical advice on human exposure. For a spill, fire, or transport incident, contact emergency services on 911.

Note on this document

Veriscents supplies this material as a repackager. This document is issued by Veriscents and describes the material as supplied by Veriscents. It is derived from the manufacturer's safety data sheet together with published regulatory data. See Section 16.

SECTION 2 — HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

Skin corrosion / irritation	Category 2
Skin sensitisation	Category 1B

Label elements



Signal word: Warning

Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing vapour or mist.
P264 Wash hands thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice / attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents and container in accordance with local, state and federal regulations.

Other hazards

No component present at 0.1% or above is listed as a probable, possible or confirmed human carcinogen by IARC, is on the OSHA list of regulated carcinogens, or is identified as a known or anticipated carcinogen by the NTP. The material is a marine pollutant for transport purposes (see Section 14) and is harmful to aquatic organisms.

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

Substance. Hazardous components are listed below.

Component	CAS No.	Concentration
Ethanone, 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-	68155-66-8 54464-57-2 68155-67-9	> 97%
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (BHT, antioxidant)	128-37-0	< 0.1%

The exact composition is a trade secret of the manufacturer. Any component not disclosed is either non-hazardous or present below the concentration requiring disclosure under 29 CFR 1910.1200.

SECTION 4 — FIRST-AID MEASURES

Inhalation	Move the person from the exposure area into fresh air and keep them at rest. If the person is unconscious, clear any foreign bodies from the mouth. If breathing has stopped, give artificial respiration. Obtain medical advice.
Skin contact	Remove contaminated clothing. Wash the affected area thoroughly with water, and with soap if available. Contact a physician if symptoms persist.
Eye contact	Flush immediately with water for at least 15 minutes, holding the eyelids open. Contact a physician if symptoms persist.
Ingestion	Rinse the mouth with water and obtain medical advice.

Most important symptoms and effects

Skin irritation. An allergic skin reaction may develop in sensitised individuals.

Notes to physician

Treat symptomatically. Consider patch testing where occupational sensitisation is suspected.

SECTION 5 — FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water spray, dry chemical, carbon dioxide, or an appropriate foam.
Specific hazards	Carbon monoxide and unidentified organic compounds may be formed during combustion.
Protective equipment for fire-fighters	Wear NIOSH-approved self-contained breathing apparatus and full protective clothing when fighting fires involving chemicals. Use water spray to cool containers exposed to fire.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid inhalation and contact with skin and eyes. Self-contained breathing apparatus is recommended in the event of a major spill.
Environmental precautions	Keep out of drains, surface water, groundwater and soil.
Containment and clean-up	Clean up spillage promptly. Remove ignition sources and provide adequate ventilation. Avoid excessive inhalation of vapours. Contain gross spillage with sand or an inert absorbent powder and dispose of it in accordance with local regulations.

SECTION 7 — HANDLING AND STORAGE

Precautions for safe handling

Avoid excessive inhalation of concentrated vapours. Follow good manufacturing practice for housekeeping and personal hygiene. Wash any exposed skin immediately after chemical contact, before breaks and meals, and at the end of each work period. Contaminated clothing and footwear should be cleaned thoroughly before reuse.

Where the material is handled openly, restrict access to trained personnel. Apply the same handling procedures when cleaning equipment or removing residues from containers — particularly where steam or hot water is used, as this raises vapour concentrations in the workplace air. Keep any heated process at the lowest necessary temperature to limit emissions.

Fire and explosion protection

Keep away from ignition sources and naked flame.

Conditions for safe storage

Store in a cool, dry, ventilated area away from heat sources. Keep containers upright and tightly closed when not in use. Amber glass or lined metal is preferred for long-term storage; headspace should be minimised to limit oxidation.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

No OSHA PEL, ACGIH TLV, or NIOSH REL has been established for the components of this product.

Engineering controls

Where feasible, isolate mixing rooms and other areas in which this material is used or openly handled, and hold those areas under negative air pressure relative to the rest of the facility. Where feasible, use closed systems to transfer and process the material.

Personal protective equipment

Eye protection	Tight-fitting goggles, a face shield, or safety glasses with side shields where eye contact is possible.
Hand protection	Avoid skin contact. Use chemically resistant gloves; nitrile is generally suitable for incidental contact. Replace gloves at the first sign of degradation.
Respiratory protection	Use local exhaust ventilation at open tanks and other potential exposure points, including places where the material is openly weighed or measured, together with general dilution ventilation of the work area. No respiratory protection is required during normal operations where engineering controls such as adequate ventilation are sufficient. Where engineering controls and safe work practices are not sufficient, use an approved, properly fitted respirator with organic vapour cartridges and particulate filters: (a) while controls and safe work practices are being implemented; (b) during short-term maintenance when controls are not in normal operation or are insufficient; (c) where normal workplace vapour concentration is increased by heat; (d) during emergencies; or (e) where controls and operational practices are not sufficient to reduce airborne concentrations below an established occupational exposure limit.

Hygiene measures

To the extent appropriate, implement pre-placement and regularly scheduled assessment of symptoms and spirometry testing of lung function for workers regularly exposed to this material. To the extent appropriate, use an experienced air sampling specialist to identify and measure volatile chemicals that may be present in workplace air, in order to determine potential exposures and to confirm the continuing effectiveness of engineering controls and operational practices.

Occupational health references

In December 2003 the National Institute for Occupational Safety and Health published an alert on preventing lung disease in workers who use or make flavourings (NIOSH Publication 2004-110). In August 2004 the United States Flavor and Extract Manufacturers Association issued a report on respiratory safety in the flavour manufacturing workplace. Both set out recommendations for reducing employee exposure and for medical surveillance, and both are broadly applicable to the workplace use of any chemical. Users of this material are urged to review them.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Method / conditions
Physical state	Liquid at 68 °F (20 °C)	1,013 hPa
Appearance	Clear liquid	—
Colour	Pale yellow	—
Odour	Woody, ambery, velvety; conforms to standard	—
Odour threshold	Not determined	—
pH	Not applicable	—
Flash point	273 °F (134 °C)	Closed cup
Auto-ignition temperature	500 °F (260 °C)	1,013 hPa; Annex V of Directive 67/548/EEC
Boiling point	554.72 °F (290.40 °C)	1,013 hPa; calculated
Vapour pressure	0.00233 hPa at 73 °F (23 °C)	Purge & trap
Relative density (20 °C)	0.9611 – 0.9670	ISO 279
Water solubility	0.00268 g/l at 68 °F (20 °C)	OECD Test Guideline 105
Partition coefficient n-octanol/water	log Pow 5.650	—
Viscosity	Not determined	—

SECTION 10 — STABILITY AND REACTIVITY

Reactivity	Presents no significant reactivity hazard by itself or in contact with water.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	None known under normal processing.

Conditions to avoid	Direct sources of heat; naked flame.
Incompatible materials	Strong acids, alkalis, and oxidising agents.
Hazardous decomposition products	Carbon monoxide and unidentified organic compounds may be formed during combustion.

SECTION 11 — TOXICOLOGICAL INFORMATION

Data below relate to component CAS 68155-66-8.

Endpoint	Result	Species / method
Acute oral toxicity	LD50 > 5,000 mg/kg	Rat; OECD Test Guideline 401
Acute dermal toxicity	LD50 > 5,000 mg/kg	Rat; OECD Test Guideline 402
Skin irritation	Skin irritation	Human; OECD 439
Eye irritation	No eye irritation	QSAR
Skin sensitisation	Causes sensitisation	LLNA, mouse; OECD Test Guideline 429
Repeated dose toxicity	NOEL 150 mg/kg	Rat, oral, 1×/day, 28 days; OECD Test Guideline 407
Teratogenicity	See manufacturer study record	Rat, oral, 1×/day
Germ cell mutagenicity	No data available	—
Carcinogenicity	Not classified — see Section 2	IARC / OSHA / NTP

SECTION 12 — ECOLOGICAL INFORMATION

Aquatic toxicity — component CAS 68155-66-8

Endpoint	Species	Result	Exposure / method
LC50 (semi-static)	Lepomis macrochirus (bluegill sunfish)	1.3 mg/l	96 h; OECD 203
EC50 (semi-static)	Daphnia magna (water flea)	1.38 mg/l	48 h; OECD 202
EC50 (static)	Desmodesmus subspicatus (green algae)	2.6 mg/l	72 h; OECD 201
NOEC (static)	Bacteria	> 100 mg/l	42 h; OECD 301 F
NOEC (semi-static)	Danio rerio (zebra fish)	0.16 mg/l	30 d; OECD 210
NOEC	Daphnia magna (water flea)	0.02 mg/l	21 d; OECD 211

Other adverse effects

The material is classified as a marine pollutant for transport purposes. With a log Pow of 5.650 it has potential to bioaccumulate. Do not allow it to enter drains, surface water, groundwater or soil.

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste material	Dispose of in accordance with local, state and federal regulations. Do not discharge to drains or watercourses.
Contaminated packaging	Place material into sealed containers and dispose of it in accordance with local, state and federal regulations. Do not reuse empty containers for other purposes.

SECTION 14 — TRANSPORT INFORMATION

DOT (United States, ground)

Not regulated as dangerous goods.

IATA / ICAO (air)

UN number	UN 3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (octahydro tetramethyl naphthalenyl ethanone)
Class	9
Packing group	III
ICAO labels	9

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IMDG (sea)

UN number	UN 3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (octahydro tetramethyl naphthalenyl ethanone)
Class	9
Packing group	III
IMDG labels	9
EmS	F-A / S-F
Marine pollutant	Yes (octahydro tetramethyl naphthalenyl ethanone)

Limited quantity and excepted quantity provisions may apply to the small pack sizes supplied by Veriscents. Confirm the applicable provisions with your carrier before shipping.

SECTION 15 — REGULATORY INFORMATION

SARA 311/312 hazard categories	Skin corrosion or irritation; respiratory or skin sensitisation.
SARA 313	No components subject to reporting requirements.
Reportable quantity	None established.
HMS classification	Health hazard 2 · Chronic health hazard — · Flammability 1 · Physical and chemical hazards 0
TSCA	All components are listed on the TSCA inventory or are exempt.
California Proposition 65	This product does not contain a chemical known to the State of California to cause cancer or reproductive toxicity at a level requiring warning.
IFRA	Restricted under the IFRA Standards. Consult the current IFRA Standard and the IFRA certificate supplied with this material for maximum use levels by product category.

SECTION 16 — OTHER INFORMATION

SDS number	VS-ISO-E-SUPER-R10
Version	1.0
Revision date	17 August 2026
Supersedes	None — first issue
Prepared by	Regulatory Officer
Approved by	Regulatory Officer

Full text of hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

Sources

This document was prepared from the manufacturer's safety data sheet for this material (International Flavors & Fragrances Inc., SDS R00000225033, version 6, revised 24 November 2021) together with published regulatory and toxicological data. Iso E Super is a registered trade mark of International Flavors & Fragrances Inc. Veriscents is not affiliated with, endorsed by, or acting as an agent of that company.

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End of safety data sheet.