

Ethylene Brassylate

ethylene-brassylate · Version 1.0 · Issued 29 August 2026

SECTION 1 — IDENTIFICATION

1.1 Product identifier

Product name	Ethylene Brassylate
Catalogue SKU	ethylene-brassylate
Chemical name	1,4-Dioxacycloheptadecane-5,17-dione — the cyclic ethylene ester of tridecanedioic (brassylic) acid
Synonyms	Ethylene glycol brassylate; ethylene tridecanedioate; Musk T; Emeressence 1150; Astratone
CAS number	105-95-3
EC number	203-347-8
FEMA number	3543
Molecular formula	$C_{15}H_{26}O_4$, molecular weight 270.4
Substance or mixture	Single-constituent substance, supplied neat.
Manufacturer's reference	Ethylene Brassylate SDS-6079

1.2 Relevant identified uses and uses advised against

Identified uses	Fragrance ingredient — a macrocyclic musk used as a base note and fixative, for professional and industrial formulation of fragrance compounds and finished consumer products.
Uses advised against	Not supplied for use undiluted on skin, for ingestion, for inhalation or vaping, or as a finished consumer product. Not to be used in lip products, children's toys or oral products — the certificate of conformity records IFRA Categories 1 and 6 as not approved; see Section 15.

1.3 Details of the supplier of the safety data sheet

Supplier	Veriscents 30 N. Gould Street Sheridan, WY 82801 United States
Telephone	+1 877.863.7700
E-mail	support@veriscents.com
Responsible contact	Regulatory Officer
Issued to	

1.4 Emergency telephone number

Emergency telephone (24 h)	+1 800.222.1222 — Poison Help, US national poison control
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Scope of the emergency number

Poison Help provides medical advice on human exposure — ingestion, inhalation, skin and eye contact — and routes the caller to their regional poison center. It operates around the clock.

It is not a chemical incident response service and does not handle spills, fire or transport incidents. The monitored-number requirement at 49 CFR 172.604 applies only to material offered as regulated hazmat. This product is not a dangerous good; see Section 14.

Provenance. This sheet is derived from the manufacturer's safety data sheet for the same material and is re-issued under the Veriscents name for a repackaged product. Sources, corrections and departures are set out in Section 16.

SECTION 2 — HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Hazard class	Category	Hazard statement
Skin corrosion / irritation	Category 2	H315 — Causes skin irritation
Hazardous to the aquatic environment — acute	Category 2	H401 — Toxic to aquatic life

Why this sheet carries a hazard label and the manufacturer's does not

The manufacturer's Section 2 classifies the material for the aquatic hazard only, with no signal word and no pictogram. Its own Section 3 nonetheless gives the classification of the substance — which makes up 100 % of the product — as Skin Irrit. 2 and Aquatic Acute 2, H315 and H401. Its Section 16 abbreviation key lists H315 and the precautionary statements that belong to a skin irritant, and its fractional-value output confirms the skin irritation threshold is exceeded. Section 11 then states the health hazard criteria are not met.

Those statements cannot all stand. Veriscents has adopted the skin irritation classification, which is the more protective reading and the one the manufacturer's own arithmetic supports; the calculation is shown in Section 16. It is also the classification most widely notified for this substance by other suppliers. The consequence is that this material carries the signal word Warning and the GHS07 pictogram, where the manufacturer's sheet shows an unlabelled product.

2.2 Label elements

Signal word	Warning
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Pictogram	Code	Applies to
Exclamation mark	GHS07	Skin irritation, Category 2

Hazard statements

H315 — Causes skin irritation.

H401 — Toxic to aquatic life.

Precautionary statements

Prevention	P264 — Wash hands and other contacted skin thoroughly after handling. P273 — Avoid release to the environment. P280 — Wear protective gloves.
Response	P302+P352 — IF ON SKIN: Wash with plenty of soap and water. P332+P313 — If skin irritation occurs: Get medical advice / attention. P362+P364 — Take off contaminated clothing and wash it before reuse.
Storage	None required for this classification.
Disposal	P501 — Dispose of contents and container to an approved disposal site, in accordance with local, state and federal regulations.

2.3 Other hazards

The material is a combustible liquid with a flash point of 110 °C and is not classified as flammable. No PBT or vPvB assessment has been performed. The long-term aquatic endpoint is not addressed by the manufacturer.

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Component	CAS	EC	%	Classification
Ethylene brassylate	105-95-3	203-347-8	100	Skin Irrit. 2 (H315); Aquatic Acute 2 (H401)

Supplied neat, with no diluent, solvent or carrier added by Veriscents. No impurities are present at concentrations that contribute to the classification. No component has an established workplace exposure limit.

SECTION 4 — FIRST-AID MEASURES

4.1 Description of first-aid measures

Inhalation	Move the affected person to fresh air and keep them at rest. Obtain medical attention if discomfort continues.
Skin contact	Remove contaminated clothing. Wash the affected skin thoroughly with soap and water. Get medical advice if irritation, redness or a rash develops or persists. Launder clothing before it is worn again.
Eye contact	Flush immediately with water for at least 15 minutes, holding the eyelids apart. Remove contact lenses if present and easy to do, then continue rinsing. Contact a physician if symptoms persist.
Ingestion	Rinse the mouth with water. Do not give anything by mouth to an unconscious person. Obtain medical attention.

4.2 Most important symptoms and effects, acute and delayed

Skin contact causes irritation, which may develop with prolonged or repeated exposure. No other acute or delayed effects are expected on the data available.

4.3 Indication of immediate medical attention and special treatment

No specific antidote is known. Treat symptomatically and supportively. Show this safety data sheet to the attending physician.

SECTION 5 — FIRE-FIGHTING MEASURES

5.1 Extinguishing media	Suitable: carbon dioxide, dry chemical, alcohol-resistant foam, water spray. Unsuitable: a direct high-volume water jet, which may spread burning material and carry contaminated run-off into drains.
5.2 Special hazards	Combustion may liberate carbon monoxide and unidentified organic compounds. Heating to decomposition produces acrid smoke and irritating fumes. Fire-water run-off is a pollution hazard because the material is toxic to aquatic life.
5.3 Advice for fire-fighters	Wear self-contained breathing apparatus and full protective clothing where ventilation is insufficient. Cool closed containers exposed to fire with water spray. Contain fire-water run-off and keep it out of drains.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions	Avoid inhalation of vapour or mist and avoid contact with skin and eyes. Wear the protective equipment described in Section 8. Spilled material makes floors slippery.
6.2 Environmental precautions	Keep the material out of drains, surface water, groundwater and soil. The product is classified toxic to aquatic life, and a release reaching water may be reportable to state or local authorities.
6.3 Containment and clean-up	Remove ignition sources and provide adequate ventilation. Contain the spillage with sand or inert absorbent, collect it into a labelled closable container, and dispose of it in accordance with Section 13. Wash the residue from the surface and prevent the washings entering drains.
6.4 Reference to other sections	See Sections 8 and 13.

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SECTION 7 — HANDLING AND STORAGE

7.1 Precautions for safe handling	Use in accordance with good manufacturing and industrial hygiene practice. Work in a well-ventilated area. Avoid contact with skin and eyes and avoid repeated or prolonged skin contact, since the material is a skin irritant. Do not eat, drink or smoke in the handling area. Remove contaminated clothing promptly and wash it before reuse. Keep away from heat, sparks, open flame and hot surfaces.
7.2 Conditions for safe storage	Store in the original tightly closed container in a cool, dry, well-ventilated place away from direct sunlight. Keep away from strong acids, alkalis and oxidising agents; as a cyclic diester the material will hydrolyse slowly on prolonged contact with strong alkali. Secondary containment is advisable given the aquatic classification. See Section 16, correction 2, on the storage advice given by the manufacturer.
7.3 Specific end uses	Fragrance compounding, subject to the category positions recorded in Section 15.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Basis	Value
OSHA permissible exposure limit (PEL)	None established for CAS 105-95-3
ACGIH threshold limit value (TLV)	None established
NIOSH recommended exposure limit (REL)	None established
Biological limit values	None established
DNEL / PNEC	No values available from the manufacturer

8.2 Exposure controls

Engineering controls	General room ventilation is normally sufficient for handling at ambient temperature. Provide local exhaust ventilation where mist or warm vapour is generated, and use closed transfer where practical. Provide eyewash facilities in the handling area.
Eye and face protection	Safety glasses with side shields, or goggles where splashing is possible.
Skin protection	Chemically resistant gloves — nitrile is commonly used for this class of material. Breakthrough time has not been determined for this substance; confirm glove selection with the glove supplier for the actual contact conditions. Gloves are a label requirement for this material, not merely good practice.
Respiratory protection	Not normally required where ventilation is adequate. Where high or prolonged use, or elevated temperature, raises vapour concentrations, use an approved, appropriately fitted respirator with an organic vapour cartridge and particulate filter, under a written programme meeting 29 CFR 1910.134.
Environmental exposure controls	Do not allow the product to enter drains or watercourses. Use secondary containment during transfer and decanting.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Property	Value	Property	Value
Physical state	Liquid — see note	Upper / lower flammability or explosive limits	Product does not present an explosion hazard
Appearance and colour	Not determined — see note	Vapour pressure	Not determined
Odour	Characteristic; sweet, powdery musk	Vapour density	Not determined
Odour threshold	Not determined	Relative density	Not determined — see note
pH	Not applicable	Solubility in water	Not determined; low solubility expected
Melting / freezing point	Not determined	Partition coefficient, n-octanol/water	Not determined
Initial boiling point / range	Not determined	Auto-ignition temperature	Not determined
Flash point	110 °C	Decomposition temperature	Not determined
Evaporation rate	Not determined	Viscosity	Not determined
Flammability (solid, gas)	Not applicable — liquid	Explosive / oxidising properties	Not expected

What the manufacturer measured, and what is still open

The flash point is the only value the manufacturer determined; everything else on their sheet reads “not determined”, including physical state. Physical state is stated above because it governs how the material is handled and cleaned up, and ethylene brassylate is supplied as a liquid at ordinary warehouse temperature. Published reference values for the substance are a density near 1.04 g/mL at 25 °C, a refractive index near 1.47, and a boiling point of 138–142 °C at 1 mm Hg. These are substance reference data, not measurements of this lot, and are deliberately not entered in the table. Appearance, relative density and refractive index should be recorded on incoming material at goods-in and carried into this section at the next revision.

9.2 Other information

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None available. Appearance and odour conformity are recorded per lot on the certificate of analysis.

SECTION 10 — STABILITY AND REACTIVITY

10.1 Reactivity	Presents no significant reactivity hazard by itself or on contact with water.
10.2 Chemical stability	Good stability under the storage conditions described in Section 7.
10.3 Possibility of hazardous reactions	None expected under normal conditions of use.
10.4 Conditions to avoid	Extreme heat and ignition sources.
10.5 Incompatible materials	Strong acids, strong alkalis and strong oxidising agents.
10.6 Hazardous decomposition products	None expected under normal storage conditions. Heating to decomposition produces acrid smoke and irritating fumes; see Section 5.

SECTION 11 — TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

The substance has not been tested as a whole. The endpoints below follow the manufacturer's assessment, except for skin irritation, which is taken from their own component classification for the reasons given in Section 2.

Endpoint	Result
Acute toxicity — oral, dermal, inhalation	Not classified. No LD50, LC50 or ATE values are provided
Skin corrosion / irritation	Skin Irrit. 2 (H315) — causes skin irritation
Serious eye damage / irritation	Not classified
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified. Not listed by IARC, NTP or OSHA
Reproductive toxicity	Not classified
STOT — single and repeated exposure	Not classified
Aspiration hazard	Not classified

SECTION 12 — ECOLOGICAL INFORMATION

12.1 Toxicity	Classified Aquatic Acute 2 (H401), toxic to aquatic life. The manufacturer supplies no measured L(E)C50 or NOEC values in support of it; the classification is carried from their assessment of the substance.
12.2 Persistence and degradability	No data available.
12.3 Bioaccumulative potential	No data available.
12.4 Mobility in soil	No data available.
12.5 Results of PBT and vPvB assessment	No assessment has been performed.
12.6 Other adverse effects	Not classified as a marine pollutant for transport. Do not allow the product to reach drains, surface water or groundwater.

SECTION 13 — DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Dispose of in accordance with local, state and federal regulations, normally by controlled incineration at a permitted facility. Do not dispose into drainage systems or to the environment.
Container disposal	Empty containers retain residue. Do not reuse, cut or weld them. Take them to an approved waste handling site for recycling or disposal.
RCRA status	This material is not a listed hazardous waste under 40 CFR 261 subpart D and does not meet the characteristic of ignitability, its flash point being above 60 °C. The waste generator remains responsible for characterising the waste as generated.

SECTION 14 — TRANSPORT INFORMATION

Not regulated for transport

This substance is not a dangerous good under the UN Model Regulations, the IMDG Code, the ICAO Technical Instructions and IATA DGR, or ADR/RID/ADN, and the manufacturer records no DOT classification. It carries no UN number, no proper shipping name, no hazard class and no packing group, and it is not a marine pollutant.

The aquatic classification in Section 2 does not change this. Transport rules treat a substance as environmentally hazardous on the basis of the long-term aquatic categories and Aquatic Acute 1, not Acute 2, so a material can be toxic to aquatic life for labelling purposes and still ship unregulated. Nothing in this SKU triggers the emergency response contract requirement at 49 CFR 172.604, and no hazmat surcharge applies by ground, air or sea.

14.5 Environmental hazards	Not environmentally hazardous for transport.
14.6 Special precautions for user	None beyond normal handling of a liquid in closed containers.

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14.7 Transport in bulk under MARPOL Annex II and the IBC Code	Not applicable. Veriscents does not ship this material in bulk.

SECTION 15 — REGULATORY INFORMATION

United States	
TSCA	Ethylene brassylate, CAS 105-95-3, is reported on the TSCA section 8(b) Inventory. The manufacturer's sheet states no inventory position.
SARA 302 / 304	Not listed as an extremely hazardous substance.
SARA 313	Not listed as a toxic chemical subject to reporting.
SARA 311 / 312	Hazard categories: skin corrosion or irritation.
CERCLA	No reportable quantity assigned.
California Proposition 65	Ethylene brassylate is not on the Proposition 65 list published by OEHHA, checked at the issue date of this sheet. No Proposition 65 warning is required on the basis of this substance.
FDA	The substance holds FEMA number 3543 for flavour use. Veriscents supplies it to fragrance specification and does not offer it for food use.
Fragrance-sector and international	
IFRA	No IFRA Standard restricts ethylene brassylate under the 51st Amendment, and the certificate of conformity records the material as not limited in fifteen of the eighteen categories. Categories 1 and 6 are recorded as not approved , meaning the material is not to be used in lip products, children's toys, toothpaste, mouthwash or other oral products. See Veriscents document VS-IFRA-ETHYLENE-BRASSYLATE-51, published alongside this sheet.
EU Regulation 1223/2009	Ethylene brassylate is not among the fragrance allergens requiring individual labelling under Annex III, and is not affected by the expansion made by Commission Regulation (EU) 2023/1545. No allergen declaration arises from this material itself.
Canada	This sheet is prepared to the United States Hazard Communication Standard. Classification under the Canadian Hazardous Products Regulations has not been assessed.

SECTION 16 — OTHER INFORMATION

Document number	VS-ETHYLENE-BRASSYLATE-R10
Version	1.0
Issue date	29 August 2026
Supersedes	None. This is the first issue under the Veriscents name.
Prepared by	Regulatory Officer, Veriscents
Next review	On a revised manufacturer sheet, change of supplier, change of Veriscents contact details, goods-in measurement of the physical constants, a new IFRA Amendment, or a regulatory change affecting classification.

Skin irritation — why the classification was restored

The manufacturer's Section 16 prints its generator's working: concentration limits of 10.00 % for skin corrosion or irritation Category 2 and 25.00 % for aquatic acute Category 2, with total fractional values of 10.00 and 4.00 respectively. A total fractional value is the sum of each component's concentration divided by its generic concentration limit, and a value of 1 or more triggers the classification.

Endpoint	Concentration	Generic limit	Fractional value	Result
Skin irritation, Category 2	100 %	10.00 %	100 ÷ 10 = 10.00	Classified — H315
Aquatic acute, Category 2	100 %	25.00 %	100 ÷ 25 = 4.00	Classified — H401

Both thresholds are exceeded by the same calculation, and the manufacturer carried only the second through to its Section 2. The skin irritation result is restored here. Nothing in this derivation is Veriscents' own data: it is the manufacturer's component classification and the manufacturer's own arithmetic, read to its conclusion.

Provenance

Prepared from the manufacturer's safety data sheet *Ethylene Brassylate SDS-6079*, Perfumer's Apprentice, version 1, issued 8 October 2024, together with their certificate of conformity for the same material issued 24 June 2024. Numerical data and hazard and precautionary statement text are reproduced exactly; prose is rewritten. The restored skin irritation classification, the full precautionary set, exposure limits, TSCA, Proposition 65, RCRA, disposal and the IFRA and EU positions are supplied by Veriscents.

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Corrections and departures from the source document

#	Item	Treatment
1	Section 2 omits the skin irritation classification that Section 3 and the Section 16 working both support, and shows no signal word and no pictogram.	Skin Irrit. 2 and H315 restored, with the signal word Warning and the GHS07 pictogram, and with the derivation shown above. Section 11 restated to match.
2	Section 7.2 instructs the user to ground and bond containers, use explosion-proof electrical equipment and non-sparking tools, and guard against static discharge — flammable-liquid text applied to a material with a flash point of 110 °C and no physical hazard classification.	Not reproduced as written. Section 7 gives storage advice appropriate to a combustible liquid.
3	The precautionary set is limited to P273 and P501, although the abbreviation key lists the skin irritant statements P264, P280, P302/352, P332/313 and P362.	Completed from the classification, using the statements the key already names.
4	Section 8 control parameters read “Not Applicable”.	Restated as “None established” for OSHA, ACGIH and NIOSH.
5	Section 2.3 records “Hydrocarbon Concentration %: 0.0000 %”, and Section 16 carries concentration-limit and total-fractional-value strings.	The hydrocarbon field is not reproduced; it carries no GHS meaning. The fractional values are not reproduced as printed but are used, and explained, in the derivation above.
6	Section 9 leaves physical state undetermined.	Physical state stated. Reference values for density, refractive index and boiling point are given in a note rather than entered as measurements.
7	Section 15 reads “None additional”.	TSCA, SARA, CERCLA, Proposition 65, FDA, IFRA and EU allergen positions supplied.
8	The manufacturer’s emergency number is their ChemTel account.	Replaced with the Poison Help line, which is available to Veriscents customers, with its scope stated in Section 1. No transport emergency contract is needed for this SKU, since it is not regulated as hazmat.

Key to abbreviations and full text of statements

Abbreviation	Meaning	Abbreviation	Meaning
Aquatic Acute 2	Hazardous to the aquatic environment, acute — Category 2	Skin Irrit. 2	Skin corrosion / irritation — Category 2
ATE	Acute toxicity estimate	STOT	Specific target organ toxicity
FEMA	Flavor and Extract Manufacturers Association	TSCA	Toxic Substances Control Act
GHS	Globally Harmonized System of Classification and Labelling of Chemicals	H315	Causes skin irritation.
IFRA	International Fragrance Association	H401	Toxic to aquatic life.
PBT / vPvB	Persistent, bioaccumulative and toxic / very persistent and very bioaccumulative	H412	Harmful to aquatic life with long lasting effects.

Trade marks and non-affiliation

Musk T, Emeressence and Astratone are trade names used in the market for this substance and are the property of their respective owners; ethylene brassylate is the generic name and is used throughout this sheet. Perfumer's Apprentice is a trade mark of its respective owner, named here to record the source of the data. Veriscents is not affiliated with, endorsed by or acting as an agent of any of them.

Disclaimer

Veriscents is the issuing party for this safety data sheet and is the responsible party for its accuracy. The information given is based on the sources named above and on the state of our knowledge at the issue date. It describes the product in respect of safety requirements only and is not a specification, a guarantee of properties, or an authorisation to use the product in any particular application. The purchaser is responsible for determining suitability for their own process, for compliance with the regulations applying to their finished product, and for the safety of their own personnel.