

Propylene Glycol

propylene-glycol · Version 1.0 · Issued 21 August 2026

SECTION 1 — IDENTIFICATION

Product identifier	Propylene Glycol
Veriscents SKU	propylene-glycol
CAS number	57-55-6
Molecular formula	C ₃ H ₈ O ₂ · molecular weight 76.09 g/mol
Synonyms	Propane-1,2-diol; 1,2-propanediol; 1,2-dihydroxypropane; methyl ethylene glycol; monopropylene glycol; MPG
Recommended use	Raw material for professional use in flavour and fragrance work, principally as a solvent, diluent and humectant. Use subject to applicable IFRA Standards and to the cosmetic, food and drug law of the destination market.
Restrictions on use	For manufacturing and professional use only. Not supplied for sale to consumers in the form supplied. Not evaluated for use in electronic cigarette or other inhalation-by-design products; see the note in Section 16.

Supplier

Company	Veriscents
Address	30 N. Gould Street, Sheridan, WY 82801, USA
Telephone	+1 877.863.7700
E-mail	support@veriscents.com
Contact	Regulatory Officer
Issued to	

Emergency telephone (24 hours) · +1 800.222.1222

Poison Help, the US national poison control line, funded by HRSA and staffed around the clock. The call is routed to the caller's regional poison center. It provides medical advice on human exposure by ingestion, inhalation, skin contact and eye contact.

This line is not a chemical incident response service. It does not handle spills, fire or transport incidents, and it holds no product-specific information from Veriscents. It does not satisfy 49 CFR 172.604. Propylene glycol is not regulated as a dangerous good by road, air or sea (see Section 14), so no monitored hazmat response number is required for shipment of this material.

Provenance

This sheet is prepared by Veriscents from the safety data sheet supplied with the material we repackage: Univar Solutions USA, Propylene Glycol, SDS number 100000003334, version 1.9, revision date 29 January 2025. Univar Solutions is the distributor of record; the manufacturer of the material is not named on that sheet, so no manufacturer attribution is made here. Veriscents is the issuing party and is responsible for the content of this sheet. Full sourcing, and identification of the items determined by Veriscents rather than taken from the source sheet, appear in Section 16.

SECTION 2 — HAZARD(S) IDENTIFICATION

Classification of the substance

This substance has been evaluated against the criteria of 29 CFR 1910.1200 Appendix A and B (GHS Rev. 8) and is **not classified** in any physical, health or environmental hazard class.

Hazard group	Classification
Physical hazards	Not classified
Health hazards	Not classified
Environmental hazards	Not classified

GHS label elements

Pictogram	None — no classification requires one
Signal word	None
Hazard statements	None. The substance does not meet the criteria for classification in any hazard class.
Precautionary statements	None required. Precautionary statements under Appendix C are assigned on the basis of hazard classification; where there is no classification, no statement is mandated.

Why no precautionary statement set is printed here

Veriscents sheets normally carry the complete precautionary statement set derived from the classification. For this material the derived set is empty, because there is no classification to derive it from. The handling advice given in Sections 7 and 8 is good occupational practice, not GHS label content, and must not be transcribed onto a label as though it were. Note that an occupational exposure guideline does exist for this substance even though it carries no classification; see Section 8.

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Hazards not otherwise classified (HNOC)	None known.
Other hazards	The material is hygroscopic and water-miscible, which changes how a spill behaves; see Section 6. Spilled material leaves a slippery film.

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

Substance.

Chemical name	Common name and synonyms	CAS number	Concentration
Propylene glycol	Propane-1,2-diol; 1,2-propanediol; monopropylene glycol	57-55-6	90 – 100%

Assay range and grade — read before use

Assay. The concentration above is reproduced from the distributor's sheet, which states that a range reflects batch variation. The identity of the balance is not given on that sheet and is not asserted here. Assay is a specification attribute, not a safety attribute: for the actual assay of the lot supplied, refer to the product specification and the certificate of analysis, not to this sheet.

Grade. The distributor's sheet records the recommended use of the material as an industrial chemical. Pharmacopoeial grade (USP, EP) and food grade are specification designations that this safety data sheet neither establishes nor implies. Where an application depends on a pharmacopoeial or food grade — anything applied to skin, ingested, or sold as a cosmetic or food ingredient — confirm the grade against the product specification and certificate of analysis before use.

SECTION 4 — FIRST-AID MEASURES

General advice	Do not leave the affected person unattended. Never give anything by mouth to an unconscious person.
Inhalation	Move the affected person to fresh air. If unconscious, place in the recovery position and seek medical advice. Call a physician if symptoms persist.
Skin contact	Wash off with soap and water. Launder contaminated clothing before re-use. Seek medical attention if irritation develops and persists.
Eye contact	Remove contact lenses if present and easily done. Rinse the affected eye with plenty of water, protecting the unaffected eye. Consult a specialist if irritation persists.
Ingestion	Keep the airway clear. Do not give milk or alcoholic drinks. Do not induce vomiting without medical advice. Call a physician if symptoms persist.
Most important symptoms and effects, acute and delayed	None expected from ordinary handling. The substance was not irritating to skin or eyes in the animal studies recorded in Section 11, and did not cause sensitisation. No delayed effects are known.
Indication of immediate medical attention and special treatment needed	No specific antidote is known. Treat symptomatically.
Notes for the physician	Ensure that attending medical personnel are aware of the material involved. Provide this safety data sheet to the physician in attendance.

SECTION 5 — FIRE-FIGHTING MEASURES

Suitable extinguishing media	Carbon dioxide, alcohol-resistant foam, dry chemical. Water spray or fog may be used; the material is water-miscible.
Unsuitable extinguishing media	High-volume water jet, which may scatter the material and spread the fire.
Specific hazards arising from the chemical	Combustible liquid with a closed-cup flash point of 103 °C (NFPA Class IIIB). It does not ignite readily at ambient temperature but will burn once heated above its flash point. Vapour is flammable between approximately 2.4% and 17.4% by volume in air. Do not allow firewater runoff to enter drains or watercourses.
Hazardous combustion products	Carbon oxides. Incomplete combustion or thermal decomposition may also produce aldehydes, organic acids and other irritating fumes; see Section 10. The source sheet states in its fire section that no hazardous combustion products are known, which is inconsistent with the decomposition products it lists in its own stability section. Veriscents has resolved the two in favour of the decomposition data and treats the combustion atmosphere as irritant.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and full personal protective equipment. Use extinguishing measures appropriate to local circumstances and to the surrounding environment; follow standard procedure for chemical fires.

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SECTION 6 — ACCIDENTAL RELEASE MEASURES

Section 6 is expanded

The source sheet addresses containment and clean-up only, and does not carry the personal-precaution and environmental-precaution subheadings that 29 CFR 1910.1200 Appendix D requires. Veriscents has supplied those subheadings from the properties of the substance recorded elsewhere on this sheet. Note in particular that propylene glycol is fully miscible with water, so it will disperse into a watercourse rather than float on it; advice written for water-immiscible fragrance materials does not apply here.

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Eliminate sources of ignition where the material may be heated above its flash point. Avoid breathing any mist generated. Wear the protection given in Section 8. Spilled material leaves a slippery film; treat the spill area as a slip hazard and clean it thoroughly. Ventilate closed spaces before entry.
Environmental precautions	Prevent further leakage or spillage if it is safe to do so. Do not allow the material to enter drains, sewers, watercourses or the ground. Because the material is water-miscible it cannot be skimmed or boomed once it reaches water, so containment before it reaches a drain is the only effective control. It exerts a substantial oxygen demand on receiving water. Notify the local authority if the material reaches a drain or an aquatic environment.
Methods and materials for containment and cleaning up	Stop the flow of material if this can be done without risk and dike the spill where possible. Wipe up with absorbent material such as cloth or fleece, or absorb into an inert absorbent, and transfer to suitable closed containers for disposal. Wash the residual film from the surface with water and retain the wash water for disposal. Do not return recovered material to its original container for re-use. Dispose of recovered material and contaminated absorbent in accordance with Section 13.

SECTION 7 — HANDLING AND STORAGE

Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice. Normal measures for preventive fire protection are sufficient; keep the material away from heat, flame, sparks and other ignition sources, and do not heat above the flash point except under controlled conditions. Avoid breathing mist. Smoking, eating and drinking should be prohibited in the handling area. Wash thoroughly after handling. For personal protection see Section 8.
Conditions for safe storage, including incompatibilities	Keep the container tightly closed when not in use and store in a cool, dry, well-ventilated area away from direct sunlight. The material is hygroscopic and will pick up atmospheric moisture from an open or poorly sealed container, which alters its water content; keep containers closed between uses. Store away from the incompatible materials listed in Section 10. Electrical installations and working materials must comply with the applicable technological safety standards.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Component	Value type	Value	Basis
Propylene glycol (CAS 57-55-6)	TWA	10 mg/m ³	WEEL

The Workplace Environmental Exposure Level is a consensus occupational guideline, not a regulatory limit. No OSHA permissible exposure limit and no ACGIH threshold limit value is cited for this substance on the source sheet. No biological limit value is established. Treat the WEEL as the control target and keep exposure below it.

Exposure controls

Appropriate engineering controls	General and local exhaust ventilation to maintain airborne concentrations below the WEEL given above. Use local exhaust at points where mist or aerosol may be generated, such as spraying, high-shear mixing or heated transfer, since the aerosol rather than the vapour is what drives exposure for a substance of this volatility.
Eye and face protection	Safety glasses, or chemical splash goggles where splashing is foreseeable, conforming to ANSI Z87.1.
Hand protection	Chemical-resistant gloves. The source sheet gives no glove material and advises that suitability be discussed with the glove manufacturer; select breakthrough time against the actual task, and against the mixture rather than the neat material where the glycol is carrying other substances.
Skin and body protection	Protective suit, laboratory coat or other suitable protective clothing. Launder contaminated clothing before re-use.
Respiratory protection	Not required under normal handling with adequate ventilation. Where concentrations exceed the WEEL or are unknown, use a NIOSH-approved respirator under a written respiratory protection program meeting 29 CFR 1910.134. Air-purifying respirators offer limited protection; use a positive-pressure supplied-air respirator where there is potential for uncontrolled release or where exposure levels are unknown.
General hygiene considerations	General industrial hygiene practice. Wash after handling the material and before eating, drinking or smoking. Do not eat, drink or store food in the work area.

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SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Clear, colourless liquid
Physical state	Liquid
Colour	Colourless
Odour	Odourless to mild
Odour threshold	No data available
pH	7 at 20–25 °C (68–77 °F)
Melting point / freezing point	–60 to –20 °C (–76 to –4 °F)
Initial boiling point and boiling range	184–188 °C (363–370 °F)
Flash point	103 °C (217 °F)
Evaporation rate	< 0.02 (butyl acetate = 1)
Flammability (solid, gas)	Not applicable — the material is a liquid
Lower explosion limit	2.4% by volume
Upper explosion limit	17.4% by volume
Vapour pressure	< 0.225 mm Hg at 25 °C (77 °F)
Relative vapour density	< 2.62 at 15–32 °C (air = 1)
Relative density	1.03–1.04 at 20–25 °C (water = 1)
Density	1.03–1.04 g/cm ³ at 20–25 °C
Solubility in water	Soluble; miscible in all proportions
Solubility, other solvents	No data available
Partition coefficient (n-octanol/water)	log P _{ow} –1.07 to –0.92
Auto-ignition temperature	371–400 °C
Decomposition temperature	No data available
Viscosity, dynamic	43–56 mPa·s at 20–25 °C
Viscosity, kinematic	42.1 mm ² /s at 25 °C; < 20 mm ² /s at 40 °C
Surface tension	71.6 mN/m at 21.5 °C as reported; see the note below this table
Explosive properties	Not explosive
Oxidising properties	Not oxidising
Particle characteristics	Not applicable — the material is a liquid
Molecular formula	C ₃ H ₈ O ₂
Molecular weight	76.09 g/mol
Flammability class	Combustible, NFPA Class IIIB

Notes on two reported values

Surface tension. The reported figure of 71.6 mN/m is close to the surface tension of water and is roughly twice the value normally reported for propylene glycol. It appears anomalous. It is reproduced as supplied because Veriscents has not measured it, but it should not be relied on; a clarification has been requested from the distributor.

pH. The value of 7 is reported for the material as supplied. A pH figure is not meaningful for a neat non-aqueous liquid and is normally determined on an aqueous dilution; the basis is not stated on the source sheet.

SECTION 10 — STABILITY AND REACTIVITY

Reactivity	No dangerous reaction is known under conditions of normal use.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None to be specially mentioned.
Conditions to avoid	Heat, flame, sparks and other ignition sources. Prolonged exposure to light.
Incompatible materials	Strong oxidising agents. Reducing agents. Acids. Bases. Amines. Isocyanates. Mercaptans.
Hazardous decomposition products	Aldehydes, alcohols, ethers, organic acids, carbon oxides and other toxic fumes.

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SECTION 11 — TOXICOLOGICAL INFORMATION

Acute toxicity

Route	Endpoint	Species	Result
Oral	LD50	Rat, male and female	22,000 mg/kg
Dermal	LD50	Rabbit	> 2,000 mg/kg
Inhalation	LC50	Rabbit (as reported)	> 317,000 mg/m ³ (> 317 mg/L), 2 hours. Test atmosphere: dust/mist.

Notes on the acute toxicity figures

Inhalation. The reported LC50 of more than 317 mg/L over two hours converts to more than 158 mg/L on the four-hour basis used for GHS classification, applying the factor of two for a two-hour mist exposure. That is more than thirty times the 5 mg/L cut-off for Acute Toxicity Category 4, so the substance is not classified for acute inhalation toxicity. The conversion is a Veriscents calculation, not source data.

Two anomalies in the reported inhalation figure. The species is given as rabbit, which is not a usual species for an inhalation study, and the value is quoted to six significant figures, which is a precision no such study supports and which suggests a unit conversion carried through without rounding. Neither anomaly affects the classification, since the result is a limit value far above every cut-off, but the figure should not be cited as a precise datum.

Oral and dermal. Both results are far above the Category 4 cut-offs of 2,000 mg/kg. The oral LD50 of 22,000 mg/kg is consistent with the low acute toxicity for which this substance is well known.

Information on toxicological effects

Endpoint	Assessment
Skin corrosion / irritation	Not irritating. Rabbit, 4-hour exposure: no skin irritation.
Serious eye damage / eye irritation	Not irritating. Rabbit: no eye irritation.
Respiratory sensitisation	No data available.
Skin sensitisation	Not a sensitiser. Guinea pig maximisation test: did not cause sensitisation.
Germ cell mutagenicity	No data available.
Carcinogenicity	Not identified as a carcinogen or potential carcinogen by IARC, NTP or ACGIH, and not on the OSHA list of regulated carcinogens.
Reproductive toxicity	No data available.
Specific target organ toxicity, single exposure	No data available.
Specific target organ toxicity, repeated exposure	No data available.
Aspiration hazard	No data available. The kinematic viscosity of the material at 40 °C is reported as below 20 mm ² /s, but the substance is not classified for aspiration because it is not a hydrocarbon and no aspiration toxicity has been identified for it.

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity	No data available. The substance is not classified as hazardous to the environment. This does not exclude the possibility that a large or frequent release may harm a receiving water through oxygen depletion.
Persistence and degradability	Readily degraded. Anaerobic biodegradation of 98% over 105 days is reported.
Bioaccumulative potential	No data available. The reported log P _{ow} of –1.07 to –0.92 indicates that bioaccumulation is not expected.
Mobility in soil	No data available. The substance is fully water-miscible and would be expected to be mobile in soil.
Other adverse effects	The material neither contains, nor was manufactured with, a Class I or Class II ozone-depleting substance as defined by Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A and B). No further ecological information is available.

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SECTION 13 — DISPOSAL CONSIDERATIONS

Disposal instructions	Dispose of contents and container through a licensed waste disposal contractor in accordance with all applicable local, state and federal regulations. Do not discharge into drains, watercourses or onto the ground. Because the substance exerts a substantial oxygen demand, discharge to a sewer, where permitted at all, requires the agreement of the receiving treatment works.
Hazardous waste code	Not established. This material is not listed as a RCRA hazardous waste and does not exhibit a characteristic of ignitability, corrosivity, reactivity or toxicity as supplied; its flash point of 103 °C is well above the 60 °C threshold for the ignitability characteristic. The waste generator remains responsible for determining the correct classification of the waste at the point of disposal, which may differ if the material has been used, contaminated or blended.
Waste from residues and unused product	Empty containers and liners may retain product residue. Dispose of residue and container safely, following the disposal instructions above.
Contaminated packaging	Take empty containers to an approved waste handling site for recycling or disposal.

SECTION 14 — TRANSPORT INFORMATION

Regulation	Classification
DOT (49 CFR)	Not regulated as a dangerous good.
IATA (air)	Not regulated as a dangerous good.
IMDG (sea)	Not regulated as a dangerous good.
ADR / RID / ADN (Europe, road, rail, inland waterway)	Not addressed on the source sheet. Confirm before any European land movement.
Transport in bulk according to MARPOL Annex II and the IBC Code	Not applicable.
Special precautions	None beyond ordinary care in securing and handling the load. The material is a combustible liquid of high flash point; keep it away from heat sources in transit.
Emergency response information	As the material is not regulated for transport by road, air or sea, the 24-hour monitored emergency response telephone number required by 49 CFR 172.604 does not apply to shipments of this SKU.

SECTION 15 — REGULATORY INFORMATION

US federal regulations

Regulation	Status
TSCA Inventory (15 U.S.C. 2601 et seq.)	On the TSCA Inventory.
CERCLA reportable quantity (40 CFR 302.4)	No component has a CERCLA reportable quantity.
SARA 302 extremely hazardous substance	No component has a section 302 threshold planning quantity.
SARA 304 reportable quantity	No component has a section 304 EHS reportable quantity.
SARA 311/312 hazard categories	No SARA hazards.
SARA 313 (TRI reporting)	No component exceeds the de minimis reporting threshold.
Clean Air Act Section 112 HAP list	Not a hazardous air pollutant.
Clean Air Act Section 112(r) (40 CFR 68.130)	Not listed.
Clean Air Act Section 111 SOCM I VOC (40 CFR 60.489)	Propylene glycol is listed. Relevant to any site operating under an air permit or a VOC emissions cap; see the note below.
Clean Water Act	Not listed under Section 311 Tables 116.4A or 117.3, not a Section 307 toxic pollutant, and not a Clean Water Act priority pollutant.
OSHA regulated carcinogens	Not listed.
FDA	Not addressed on the source sheet. Propylene glycol as a substance is the subject of an FDA GRAS affirmation for direct food use at 21 CFR 184.1666, but whether the material supplied meets that provision depends on its grade and specification, which this sheet does not establish; see Section 3.

VOC status

Propylene glycol is a volatile organic compound for the purposes of US air quality regulation and is named on the SOCM I list at 40 CFR 60.489. It is not exempt. A customer compounding at scale under a state air permit or a VOC emissions cap should count it toward that cap. This has no bearing on the hazard classification of the material and is noted here only because the exemption is often assumed.

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US state and other jurisdictions	
California Proposition 65	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. No Proposition 65 warning is required.
Massachusetts Right to Know	No component is subject to the Act.
Pennsylvania Right to Know	Propylene glycol (CAS 57-55-6) is listed.
Canada, WHMIS	Not controlled. All components are on the Canadian Domestic Substances List.
Other inventories	The components are on, or in compliance with, the inventories of Australia (AICS), New Zealand (NZIoC), Japan (ENCS), Korea (KECI), the Philippines (PICCS) and China (IECSC).

Fragrance industry — IFRA

Propylene glycol is not the subject of an IFRA Standard under the 51st Amendment to the IFRA Code of Practice. No IFRA category limit applies to its use, and no restriction, prohibition or specification governs it. This is a statement about IFRA only; other regulation, including the provisions cited above and the cosmetic, food and drug law of the destination market, continues to apply. Where the material is used as a diluent for a restricted material, the IFRA limit on that restricted material applies to its concentration in the finished consumer product and is unaffected by the diluent. Where an IFRA Certificate of Conformity is published for this SKU it is available from the product page at veriscents.com.

Other

EU Cosmetic Regulation 1223/2009, Annex III	Propylene glycol is not a declarable fragrance allergen under Annex III. Refer to the Allergen Statement for this SKU where one is published.
Chemical safety assessment	No chemical safety assessment has been carried out for this substance by Veriscents.

SECTION 16 — OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Veriscents issue date	21 August 2026
Veriscents version	1.0
Veriscents document number	VS-PROPYLENE-GLYCOL-R10
Revision information	First issue under the Veriscents name.
NFPA ratings	Health 0 · Flammability 1 · Instability 0
HMIS® III ratings	Health 0 · Flammability 1 · Physical hazard 0

Inhalation-by-design applications

Propylene glycol is widely used as a carrier in aerosolised consumer products, including electronic cigarettes and theatrical fog. This material has not been evaluated or tested by Veriscents for any application in which it is deliberately vaporised and inhaled, the source sheet designates it an industrial chemical, and it is not supplied for that purpose. Anyone contemplating such an application must qualify the material against the requirements of that application independently of this sheet.

Sources

Source	Document	Version	Date
Univar Solutions USA (distributor)	Safety Data Sheet, Propylene Glycol, SDS number 100000003334	1.9	Revised 29 January 2025
Veriscents	Classification review, GHS Rev. 8 criteria; acute inhalation conversion and the anomaly notes in Section 11; expansion of Section 6 to the subheadings required by Appendix D; resolution of the combustion-products conflict in Section 5; surface tension and pH notes in Section 9; molecular formula and weight in Section 1; NFPA class in Sections 5 and 9; RCRA characterisation in Section 13; IFRA status and the FDA and VOC notes in Section 15	1.0	21 August 2026

The source sheet is issued by a distributor and does not name the manufacturer of the material. A change of upstream manufacturer would not necessarily be visible in a reissue of that sheet, so the specification and certificate of analysis, rather than this sheet, govern what is in the container.

Trade marks and affiliation

Univar and Univar Solutions are marks of Univar Solutions Inc. Veriscents is not affiliated with, endorsed by, or acting as an agent of that company. CHEMTREC is a registered mark of the American Chemistry Council. IFRA is a mark of the International Fragrance Association. HMIS is a registered mark of the American Coatings Association. NFPA is a registered mark of the National Fire Protection Association. These marks are used for identification only.

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Abbreviations

ACGIH American Conference of Governmental Industrial Hygienists · CAS Chemical Abstracts Service · GHS Globally Harmonized System of Classification and Labelling of Chemicals · HAP hazardous air pollutant · HNOC hazards not otherwise classified · IARC International Agency for Research on Cancer · LC50 median lethal concentration · LD50 median lethal dose · NIOSH National Institute for Occupational Safety and Health · NTP National Toxicology Program · PEL permissible exposure limit · RCRA Resource Conservation and Recovery Act · SOCMI synthetic organic chemical manufacturing industry · TLV threshold limit value · TSCA Toxic Substances Control Act · TWA time-weighted average · VOC volatile organic compound · WEEL Workplace Environmental Exposure Level

Disclaimer

Veriscents issues this sheet as the responsible party for its content. It is prepared from the distributor's data identified above together with the review recorded in Section 16, and reflects our knowledge at the date of issue. It describes the material as supplied and does not describe its behaviour in combination with other materials or within any particular process.

The information is guidance for safe handling, use, processing, storage, transport and disposal. It is not a specification and it is not a guarantee of any property, grade, assay or fitness for a particular purpose; refer to the product specification sheet and the certificate of analysis for those. It is the responsibility of the purchaser to assess the suitability and safety of the material in their own processes and finished products, to pass appropriate warnings and handling procedures to everyone who will handle it, and to comply with the law of the markets they supply.

Review triggers for this sheet: a revised source safety data sheet; a change of distributor, manufacturer or grade for this SKU; a change to the classification criteria or to the regulatory listings cited in Section 15; a change to the WEEL or the assignment of an OSHA PEL or ACGIH TLV; a change of Veriscents contact details; a new IFRA Amendment affecting this material.