

Safety Data Sheet: 1-Octadecanol

1. Identification

Product	1-Octadecanol; CAS 112-92-5; EC 204-017-6
Use	Industrial fatty-alcohol formulation and chemical processing.
Company	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Address	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / email	+86-21-54265599 / sales@zxchem.com.cn
Emergency contact	ZXCHEM office number above, office hours, China time (UTC+8). For urgent medical assistance contact local emergency services.
Scope	Reference safety information for 1-Octadecanol. The reference composition, concentration and supply-grade differences are described in Section 3. This document does not certify the composition or transport status of a specific delivered batch or a different formulation.

2. Hazards Identification

Classification	Not classified under the selected GHS substance reference. Combustible dust is an additional handling hazard.
Signal word / symbols	No signal word assigned; No GHS pictogram in the selected reference
Hazard statements	No GHS hazard statement assigned. Dispersed organic dust can form a combustible atmosphere; avoid ignition and dust accumulation.
Prevention	Use adequate ventilation; avoid inhaling dust. Prevent skin and eye contact. Wear suitable chemical-resistant gloves and eye protection. Wash after handling; keep food and drink out of the work area.
Response	After exposure, stop work and seek medical advice. For severe exposure obtain urgent medical care. Rinse contaminated skin or eyes with water; move an inhalation casualty to fresh air.
Environment	Prevent uncontrolled release to drains, soil or surface water. Collect spills for appropriate disposal.

3. Composition / Information on Ingredients

Reference ingredient	Stearyl alcohol, CAS 112-92-5: 95% in the reference. ZXCHEM supply specification: active content $\geq 96\%$; no unreported impurity identity is inferred.
Supply grade	Active content $\geq 96\%$
Applicability	The cited concentration or purity describes the reference material. It is not a certificate of analysis for the delivered batch; different solvents or dilutions require the matching supplier safety document.

4. First-Aid Measures

General	Protect the rescuer from exposure and show the product information to medical personnel. Obtain medical advice if symptoms occur or exposure is significant.
Inhalation	Move to fresh air and keep the person comfortable. Seek medical care for breathing difficulty or persistent symptoms. Avoid exposing rescuers to dust.
Skin	Remove contaminated clothing and rinse skin thoroughly with water. Seek medical advice for persistent irritation.
Eyes	Rinse gently with clean water for at least 15 minutes. Remove contact lenses when easy and continue rinsing. Seek medical advice if irritation persists.
Ingestion	Rinse the mouth. Do not induce vomiting. Give nothing by mouth to an unconscious person. Obtain medical advice.
Effects / treatment	Dust or direct contact may irritate the eyes or airways. Seek medical assessment after significant exposure. Treatment is symptomatic and directed by a clinician.

5. Fire-Fighting Measures

Extinguishing media	Use extinguishing media appropriate to the surrounding fire and self-contained breathing equipment. Prevent dust dispersion and cool exposed containers with water spray.
Hazards	Carbon oxides and smoke on combustion; dispersed organic dust may ignite.
Protection	Firefighters require suitable protective clothing and self-contained breathing equipment. Prevent contaminated firefighting water entering drains.

6. Accidental Release Measures

Personnel	Isolate the spill and provide ventilation. Use chemical-resistant gloves and eye protection; avoid contact and dust exposure.
Environment	Contain the release and protect drains and waterways. Report significant environmental contamination to the responsible authority.
Cleanup	Collect spilled solid without raising dust into closed labelled containers.

7. Handling and Storage

Handling	Use controlled transfer and effective ventilation. Avoid generating dust and prevent contamination of the work area.
Storage	Store sealed in a cool, dry, ventilated place. Protect from heat and moisture and keep separate from strong oxidizing agents.
Incompatibilities	Strong oxidizers, strong acids and strong bases.
Specific use	Evaluate compatibility and appropriate operating conditions in the complete formulation before industrial use.

8. Exposure Controls / Personal Protection

Exposure limits	No substance-specific occupational limit is provided by the selected reference; apply workplace dust controls and local limits.
Engineering controls	Use local extraction where dust can be generated. Maintain accessible eyewash and emergency washing facilities.
Personal protection	Wear chemical-resistant gloves selected for the task, suitable protective clothing and splash goggles. Add face protection for splash-prone tasks.
Respiratory protection	Use a properly selected respirator under a respiratory-protection program where engineering controls do not adequately limit airborne exposure.
Hygiene	Wash after handling, remove contaminated clothing promptly and do not eat, drink or smoke in the work area.

9. Physical and Chemical Properties

Appearance	White solid at 20°C
Formula / molecular weight	C18H38O / 270.49 g/mol
Melting range, reference	56–60°C
Boiling point, reference	335°C
Flash point, reference	170°C, closed cup
Water solubility	Insoluble
Other properties	Product-specific values for odor threshold, vapor pressure, partition coefficient, autoignition temperature and viscosity are not supplied by the selected reference set. No values are inferred.

10. Stability and Reactivity

Stability	Handle and store under the recommended conditions. Prevent contamination and unnecessary heating.
Incompatibilities	Strong oxidizers, strong acids and strong bases.
Decomposition	Carbon oxides and smoke on combustion; dispersed organic dust may ignite.

11. Toxicological Information

Exposure effects	Dust or direct contact may irritate the eyes or airways. Seek medical assessment after significant exposure.
Reference classification	Not classified under the selected GHS substance reference. Combustible dust is an additional handling hazard.
Toxicological data	Reference oral rat LD50: 20 g/kg. The selected substance reference does not assign an acute toxicity category.

12. Ecological Information

Environmental effects	Reference reports substantial biodegradation in 28-day testing. Collect material and prevent uncontrolled environmental discharge; transport nonclassification is not a disposal permission.
Controls	Prevent uncontrolled release, collect spills and dispose of contaminated material through an authorized route.
Assessment	No product-specific PBT/vPvB assessment is claimed. Absence of data does not establish absence of environmental effects.

13. Disposal Considerations

Product	Collect surplus product and contaminated cleanup material for disposal by an authorized chemical-waste contractor in accordance with local requirements.
Packaging	Containers may retain product residues. Do not reuse contaminated packaging without an approved cleaning process; use an authorized disposal route.

14. Transport Information

Classification	Non-dangerous goods
UN number	Not assigned
Shipping name	Not regulated as dangerous goods
Class / packing group	DOT / ADR / IMDG / IATA: non-dangerous goods; packing group not assigned.
Transport precautions	Protect packaging and closures from damage, secure loads and prevent releases. This reference is not a shipping declaration for a specific consignment.

15. Regulatory Information

Identity	1-Octadecanol; CAS 112-92-5; EC 204-017-6
HS reference	290517; reference heading rather than a destination customs ruling.
Compliance	Apply applicable workplace, environmental and transport rules. A raw-material listing does not establish finished-product authorization.
Assessment	No ZXCHEM-specific chemical safety assessment or destination registration is asserted.

16. Other Information

Hazard meanings	No GHS hazard statement assigned. Dispersed organic dust can form a combustible atmosphere; avoid ignition and dust accumulation.
Limitations	Prepared as reference safety information for the identified material. It is not a batch analytical certificate or safety assessment of a different solvent-containing formulation.
Revision	2026.2; prepared 2026-10-06. Customer-document branding and title corrected; technical safety data retained.
Document scope	Reference safety information for the material and grade described in Sections 1 and 3. Different concentrations, solvents or formulations require the applicable safety information. This is not a batch analytical certificate.

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