Safety Data Sheet: Erucamide Propyl Hydroxysulfonyl Betaine

Version 2026 | Revision date: 2026-11-04 | Language: English

1. Identification

Product name	Erucamide Propyl Hydroxysulfonyl Betaine
CAS No.	164118-71-2
Product type	Zwitterionic surfactant preparation
Recommended use	Professional oilfield foaming, wetting and formulation applications.
Supplier	Hainan Zhongxin Chemical Co., Ltd.
Address	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China.
Telephone / emergency	+86-21-54265599 (company contact, China office hours). For urgent medical assistance call local emergency services.
Website / email	www.zxchem.com / sales@zxchem.com.cn

2. Hazards Identification

GHS classification	
Signal word / pictograms	
Hazard codes	
Other safety information	Avoid contact with skin and eyes and inhalation of aerosols. Concentrated surfactants can irritate skin and eyes. Spills can make surfaces slippery.
Precautions	Avoid unintended exposure. Wear appropriate gloves and eye protection. Use ventilation and maintain good workplace hygiene.

3. Composition / Information on Ingredients

Ingredient / preparation	Erucamide propyl hydroxysulfonyl betaine preparation
Concentration / specification	Total solids 40.0 +/-2.0%; sodium chloride <=6.0% (specification limits). Total solids is not pure surfactant concentration.
Other constituents	
Applicability	The liquid preparation identified by CAS 164118-71-2. Different betaines, hydroxysultaines and concentrations are not interchangeable.

4. First-Aid Measures	
Inhalation	Move to fresh air. Obtain medical attention for breathing difficulty or persistent symptoms.
Skin	Remove contaminated clothing and wash with water and mild soap. Seek medical advice for irritation or allergic symptoms.
Eyes	Rinse carefully with clean water for at least 15 minutes. Remove contact lenses if easy. Obtain medical attention for persistent symptoms.
Ingestion	Rinse mouth. Do not induce vomiting. Give nothing by mouth to an unconscious person. Obtain medical advice.
Symptoms / treatment	Avoid contact with skin and eyes and inhalation of aerosols. Concentrated surfactants can irritate skin and eyes. Spills can make surfaces slippery. Treatment is directed by a medical professional.

5. Fire-Fighting Measures	
Extinguishing media	Use water spray, foam, dry chemical or carbon dioxide appropriate to the surrounding fire. Avoid a forceful jet that spreads material.
Specific hazards	Prevent heat exposure and ignition; contain spilled material. Fire can release irritating smoke and carbon oxides.
Firefighter protection	Use self-contained breathing apparatus and protective clothing. Contain contaminated firefighting water.

6. Accidental Release Measures	
Personal / environmental	Keep unprotected people away. Avoid contact and airborne exposure. Prevent entry into drains, soil and waterways.
Containment / cleanup	Absorb with compatible inert material and collect in closed, labelled containers. Clean slip hazards.

7. Handling and Storage	
Handling	Use suitable ventilation. Avoid splashes and mist.
Storage	Keep containers tightly closed in a cool, dry, ventilated storage area. Protect from direct sunlight and contamination; separate from incompatible chemicals.
Incompatible materials	Strong oxidizing agents. Keep away from incompatible cleaning and processing chemicals.

8. Exposure Controls / Personal Protection	
Occupational exposure limits	
Engineering controls	Provide ventilation suitable for the task, with local extraction for dust or mist. Make eyewash facilities accessible.
Eye / skin protection	Wear safety goggles and suitable protective gloves and work clothing. Select glove material for the task and exposure.
Respiratory protection	Use a suitable approved respirator within a workplace protection program when ventilation does not control airborne exposure.
Hygiene	Wash after handling. Keep food and drink outside the handling area. Clean contaminated clothing before reuse.

9. Physical and Chemical Properties	
Physical state / appearance	Light-yellow clear liquid
Odour	
pH	5.0–8.0
Melting / freezing point	
Boiling point	
Flash point	
Flammability	
Density	
Solubility	
Vapour pressure	
Decomposition temperature	

10. Stability and Reactivity	
Reactivity / stability	Prevent excessive heating, contamination and contact with incompatible materials.
Conditions to avoid	Excessive heat, ignition and uncontrolled contamination.
Hazardous reactions	
Decomposition	Fire can produce carbon oxides and irritating smoke.

11. Toxicological Information	
Likely exposure routes	Inhalation of dust or aerosols; eye and skin contact; accidental ingestion.
Effects / precautions	Avoid contact with skin and eyes and inhalation of aerosols. Concentrated surfactants can irritate skin and eyes. Spills can make surfaces slippery.
Acute toxicity values	
CMR / repeated-dose data	

12. Ecological Information	
Ecotoxicity	
Persistence / bioaccumulation	
Mobility / PBT / vPvB	
Environmental precautions	Contain releases and cleanup residues. Do not discharge to drains or waterways.

13. Disposal Considerations	
Waste treatment	Collect waste and contaminated cleanup material. Use an authorized disposal route under local requirements. Do not discharge to drains.
Packaging	Empty containers may retain residues. Keep contaminated packaging separate and use an appropriate recovery or disposal route.

14. Transport Information	
UN number	
Proper shipping name	
ADR / RID class	
IMDG class	
IATA class	
Packing group	
Marine pollutant status	
Transport precautions	Keep packages closed and secure against leakage, contamination and damage. Blank transport fields do not establish an exemption from dangerous-goods requirements.

15. Regulatory Information	
Safety compliance	
Chemical safety assessment	
Use / restrictions	Apply the workplace, environmental, ingredient-use and import requirements of the intended market. No finished-product approval is asserted.

16. Other Information	
Version / revision date	2026 | 2026-11-04
Prepared by	ZXCHEM
Scope	The liquid preparation identified by CAS 164118-71-2. Different betaines, hydroxysultaines and concentrations are not interchangeable.
Limitations	Information applies to the identified material and stated form. Empty fields indicate no verified value is supplied and do not establish safety, regulatory compliance or shipping clearance. This sheet is not a batch certificate or a dangerous-goods declaration.