

Sodium Butyl Xanthate

SBX xanthate collector for copper, zinc and other non-ferrous sulfide mineral flotation.

CAS No. 141-33-3	EC / List No. 205-481-2	Transport Class 4.2 — Self-heating substances
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Product Information

Sodium Butyl Xanthate, commonly abbreviated SBX, is the sodium salt of n-butyl xanthic acid. The active component has CAS 141-33-3, formula C₅H₉NaOS₂ and molecular weight 172.24 g/mol. It is supplied as a free-flowing powder or pellet for industrial mineral processing.

Specifications

Parameter	Specification
Appearance	Pale yellow or khaki powder or pellets
Xanthate purity	≥90.0 % wt
Free alkali	≤0.2 % wt
Moisture and volatile matter	≤4.0 % wt
Solubility	Soluble in water; no visible impurities

Supply limits and packing options follow the matching ZXCHEM 2026 SBX TDS. The EC identifier is corrected to 205-481-2 using the matched chemical identity reference. The specification describes the industrial solid grade.

Typical Properties

Property	Typical Value
Molecular formula	C ₅ H ₉ NaOS ₂
Molecular weight	172.24 g/mol

Applications

Copper sulfide flotation: SBX collector for chalcopyrite and related copper sulfide feeds. Evaluate the collector blend, pulp pH, liberation and addition sequence to balance copper recovery with pyrite and gangue rejection.

Activated sphalerite and polymetallic ores: Collector for activated sphalerite and suitable lead-zinc or polymetallic sulfide circuits. Confirm activation chemistry, depressant compatibility and stage selection through ore-specific flotation testing.

Rubber and hydrometallurgical development: The legacy technical reference also identifies rubber vulcanization and hydrometallurgical applications. Assess the specific reaction, formulation and process qualification independently; flotation specifications do not establish finished-rubber performance.

Packaging / Storage

Item	Information
Packing	110–180 kg iron drums / 850–900 kg lined wooden boxes / 25–50 kg lined bags
Storage	Store tightly sealed in a cool, dry, well-ventilated area away from water, acids, oxidizers, heat and ignition sources. Maintain air gaps between stacks and control stock age. Keep moisture-resistant liners intact.
Handling	Prevent dust exposure and use adequate extraction. Wear chemical-resistant gloves, protective clothing and splash goggles or a face shield. Avoid breathing decomposition vapours; use suitable respiratory protection under a workplace assessment.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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