



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Cetyltrimethylammonium Bromide
PRODUCT NUMBER: 11803
CAS NUMBER: 57-09-0
SYNONYMS: Cetrimonium bromide; N,N,N-trimethyl-1-hexadecanaminium bromide; Hexadecyltrimethylammonium bromide; Palmityltrimethylammonium bromide; CTAB

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.

Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

HMIS CLASSIFICATION:

Health: 2 Fire: 1 Reactivity Hazard: 0 Personal: E

NFPA RATING:

Health: 2 Flammability: 1 Reactivity Hazard: 0

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

EYE CONTACT: Causes eye irritation

SKIN CONTACT: May be harmful if absorbed through the skin. Causes skin irritation

INHALATION: May be harmful if inhaled. Causes respiratory tract irritation.

INGESTION: Toxic if swallowed

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $\text{CH}_3(\text{CH}_2)_{15}\text{N}(\text{CH}_3)_3\text{Br}$

Molecular Weight: 364.15

CHEMICAL NAME	CAS#	%
Cetyltrimethylammonium Bromide	57-09-0	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: In case of eye contact, rinse with plenty of water and seek medical attention if necessary.

SKIN EXPOSURE: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if necessary.

INHALATION: Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.

INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: 244°C

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: Not explosive

EXTINGUISHING MEDIUM: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Carbon oxides, nitrogen oxides, and hydrogen bromide gas.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Pick up and arrange disposal without creating dust. Sweep up and shovel. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

CONDITIONS FOR SAFE STORAGE: Store in cool, dry well ventilated area. Keep away from incompatible materials.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS: Contains no substances with occupational exposure limit values.

EYE PROTECTION: Wear chemical safety glasses or goggles.

SKIN PROTECTION: Wear nitrile or rubber gloves, apron, or lab coat.

VENTILATION: Provide local exhaust, preferably mechanical.

RESPIRATOR: Use an approved respirator

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White to off white solid.

ODOR: Ammoniacal (slight)

MOLECULAR WEIGHT: 364.15

BOILING POINT: Not available

MELTING POINT: 248-251°C

SPECIFIC GRAVITY: Not available

VAPOR DENSITY: No data available

SOLUBILITY: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Not available

INCOMPATIBILITY: Strong oxidizing agents.

DECOMPOSITION PRODUCTS: Carbon oxides, nitrogen oxides, and hydrogen bromide gas.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: Eyes – rabbit – Severe eye irritation. LD50 Oral – rat – 410 mg/kg

CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.

MUTAGENIC EFFECTS: Not available

TETRATOGENIC EFFECTS: Not available

RTECS: BQ7875000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

AQUATIC VERTEBRATE: LC50 – Danio rerio (zebra fish) – 0.3 mg/l – 96.0 hours

AQUATIC INVERTEBRATE: EC50 – Daphnia magna (water flea) – 0.03 mg/l – 48 hours

TERRESTRIAL: Not available

This product is readily biodegradable (100%).

Very toxic to aquatic life.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN3077

Environmentally hazardous substance, n.o.s.

(Cetyltrimethylammonium bromide)

Class 9

PG III

Marine Pollutant: Yes

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

DSCL (EEC): Listed on the DSCL inventory

SARA 302/304: Not Listed

SARA 311/312: Cetrimonium Bromide

SARA (TITLE 313): Not Listed

CALIFORNIA PROP. 65: Not Listed

WHMIS CANADA: Class D-2B: Toxic material causing other toxic effects.

SECTION 16 OTHER INFORMATION

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