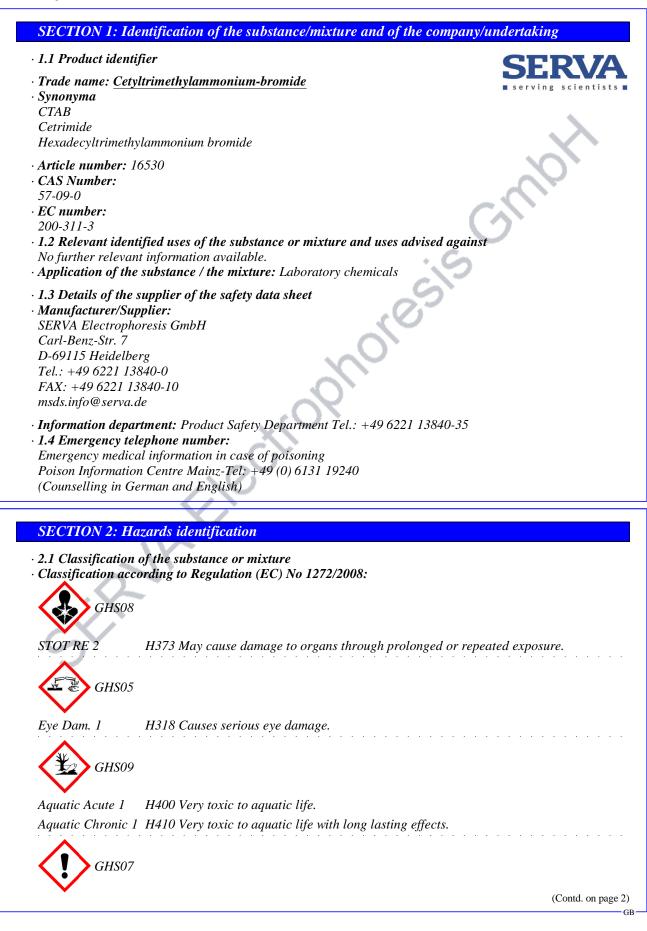
Printing date 29.05.2024

Version number 5

Revision: 29.05.2024



Printing date 29.05.2024

Version number 5

Revision: 29.05.2024

Trade name: Cetyltrimethylammonium-bromide

Skin Irrit. 2H315 CaSTOT SE 3H335 Ma• 2.2 Label elementsLabelling according to Regu The substance is classified ai• Hazard pictograms: GHS05,• Signal word: Danger• Hazard statements:H302 Harmful if swallowed.H315 Causes skin irritation.H318 Causes serious eye dan H335 May cause respiratory H373 May cause damage to H410 Very toxic to aquatic la• Precautionary statements P273P273Avoid rell P280P301+P312IF SWALL P302+P352P305+P351+P338 IF IN EY present ai P362+P364P362+P364Take off of C• Labelling of packages where Hazard statements H318 Causes serious eye dan P301+P312P303 Word Danger• Hazard statements H318 Causes serious eye dan P305+P351+P338 IF IN EY present ai P305+P351+P338 IF IN EY P305+P351+P338 IF IN EY ProtectioP301+P312P302+P352FON SH P305+P351+P338 IF IN EY P305+P351+P338 IF IN EYP301+P312P302+P352FON SH P305+P351+P338 IF IN EY P305+P351+P338 IF IN EY	urmful if swallowed. uuses skin irritation.
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· 2.3 Other hazards	'ES: Rinse cautiously with water for several minutes. Remove contact lenses, and easy to do. Continue rinsing.
	,
	ssessment:
• PBT: PBT - Assessment not	
· vPvB: vPvB - Assessment no	t available.
· Determination of endocrine	-disrupting properties No further relevant information available.
•	

· 3.1 Substances

*

· CAS No. Description:

57-09-0 cetrimonium bromide

- Identification number(s):
- EC number: 200-311-3

· Description:

- **Empirical formula:** C₁₉ H₄₂ Br N **MW:** 364.5

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≥30%

Safety data sheet according to 1907/2006/EC, Article 31

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Trade name: Cetyltrimethylammonium-bromide

(Contd. of page 2) • Regulation (EC) No 648/2004 on detergents / Labelling for contents

cationic surfactants

SECTION 4: First aid measures

• 4.1 Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
- Wash off immediately with soap and water and rinse thoroughly. In case of complaints, consult a doctor. *After eye contact:*

Rinse opened eye for several minutes with running water. Remove contact lenses if possible and continue rinsing. Consult an ophthalmologist immediately.

- After swallowing: Rinse out mouth and consult a doctor. Do not induce vomiting!
- **4.2** Most important symptoms and effects, both acute and delayed No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** *No further relevant information available.*

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents:

 CO_2 , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • 5.2 Special hazards arising from the substance or mixture:

Formation of hazardous vapours and gases possible during heating or in case of fire. In case of fire, the following can be formed, but not limited to:

Nitrogen oxides (NOx)

Carbon monoxide and carbon dioxide

Hydrogen bromide (HBr)

Ammonia (NH₃)

 NH_{3}

- 5.3 Advice for firefighters
- Protective equipment: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing. Ensure adequate ventilation Avoid formation of dust.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up Dispose contaminated material as waste according to section 13. Pick up mechanically.
6.4 Reference to other sections

• **6.4 Reference to other sections** See Section 7 for information on safe handling See Section 8 for information on personal protection equipment.

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Trade name: Cetyltrimethylammonium-bromide

See Section 13 for disposal information.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Avoid contact with eyes and skin.

- Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store containers tightly closed and dry.
- · 7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls: No further data; see section 7.
- · Individual protection measures, such as personal protective equipment:
- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Store protective clothing separately.
- Immediately remove all soiled and contaminated clothing
- Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

- Breathing equipment:
- Short term filter device: Filter P2.
- Hand protection:
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material:

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Nitrile rubber, NBR Natural rubber, NR

- · Eye/face protection: Tightly sealed goggles.
- · Body protection: Protective work clothing.

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Trade name: Cetyltrimethylammonium-bromide

(Contd. of page 4)

0.1 Information on basis abusisal and showing la	non artica
9.1 Information on basic physical and chemical pa General Information:	roperues
Physical state:	Solid.
Colour:	white to almost white
Odour:	Weak, characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	No information available
Boiling point or initial boiling point and boiling	5
range:	No information available
Flammability:	No information available
Lower and upper explosion limit:	•
Lower:	No information available
Upper:	No information available
Flash point:	No information available
Decomposition temperature:	No information available
pH:	No information available
Viscosity:	•
Kinematic viscosity:	No information available
Dynamic viscosity:	No information available
Solubility:	•
Water:	Barely soluble in water
Partition coefficient n-octanol/water (log value):	No information available
Vapour pressure:	No information available
Density and/or relative density:	
Density:	No information available
Relative density:	No information available
Particle characteristics	No information available
9.2 Other information	Further physico-chemical data are not available.
Appearance:	
Form:	Powder
Important information on protection of health and environment, and on safety:	1
Explosive properties:	The product is not explosive, but the formation of explosive dust/air mixtures is possible.
Molecular weight	364.5 g/mol

SECTION 10: Stability and reactivity

- · 10.1 Reactivity: No further relevant information available.
- · 10.2 Chemical stability:
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions: No further relevant information available.
- · 10.4 Conditions to avoid: High temperatures
- 10.5 Incompatible materials: Avoid contact with:
- Strong oxidizers
- Strong acids
- \cdot **10.6 Hazardous decomposition products:** In case of fire: see section 5

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

· Acute toxicity: Harmful if swallowed.

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D/LC50 values that are relevant for cl	lassification:
--	----------------

Oral LD50 410 mg/kg (rat)

LC50/96h 0.3 mg/l (fish)

· Skin corrosion/irritation: Causes skin irritation.

· Serious eye damage/irritation: Causes serious eye damage.

• Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

 $\cdot \textit{ Germ cell mutagenicity: } Based on available data, the classification criteria are not met.$

• Carcinogenicity: Based on available data, the classification criteria are not met.

• Reproductive toxicity: Based on available data, the classification criteria are not met.

• STOT-single exposure: May cause respiratory irritation.

· STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

· Aspiration hazard: Based on available data, the classification criteria are not met.

• 11.2 Information on other hazards:

• Endocrine disrupting properties: No relevant information available

SECTION 12: Ecological information

· 12.1 Toxicity:

· Aquatic toxicity:

EC50/72h 0.01 mg/l (algae)

· 12.2 Persistence and degradability: No further relevant information available.

• 12.3 Bioaccumulative potential: No further relevant information available.

• 12.4 Mobility in soil: No further relevant information available.

• 12.5 Results of PBT and vPvB assessment:

· **PBT:** PBT - assessment not available.

· **vPvB**: vPvB - assessment not available.

• 12.6 Endocrine disrupting properties: For information on endocrine disrupting properties see section 11.

· 12.7 Other adverse effects:

• Additional ecological information:

• General notes:

Do not allow product to reach ground water, water course or sewage system.

Water danger class 3 (German Regulation) (Assessment by list): extremely hazardous for water.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Dispose of in accordance with official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

· Recommendation:

Uncleaned packaging must be disposed of in the same way as the product in accordance with official regulations.

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA

UN3077

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	(Contd. of page
14.2 UN proper shipping name	
ADR	3077 ENVIRONMENTALLY HAZARDOU
	SUBSTANCE, SOLID, N.O.S. (cetrimonium bromide)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE
ind G	SOLID, N.O.S. (cetrimonium bromide), MARIN
	POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE
	SOLID, N.O.S. (cetrimonium bromide)
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
*/ * 2	
Class:	9 Miscellaneous dangerous substances and articles.
Label:	9
	·
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards	
Marine pollutant:	Yes (P)
mana ponuma.	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special marking (ADK): Special marking (IATA):	
	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances an
, 1 , 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	articles.
Hazard identification number (Kemler code):	90 E A C E
EMS Number:	F-A,S-F
Stowage Category	A
Stowage Code	SW23 When transported in BK3 bulk container, se
	7.6.2.12 and 7.7.3.9.
14.7 Maritime transport in bulk according to IM	
instruments	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
ADR	
Limited quantities (LQ)	5 kg
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
Transport category	3
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	5 kg
Excepted quantities (\widetilde{EQ})	Code: E1
· · · · ~	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
UN ''Model Regulation'':	UN 3077 ENVIRONMENTALLY HAZARDOU
-	SUBSTANCE, SOLID, N.O.S. (CETRIMONIU)
	BROMIDE), 9, III

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SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · Poisons Act

- · Regulated explosives precursors Substance is not listed.
- · Regulated poisons Substance is not listed.
- · Reportable explosives precursors Substance is not listed.
- · Reportable poisons Substance is not listed.
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- Seveso category E1 Hazardous to the Aquatic Environment
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II
- Substance is not listed.
- · REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
- Substance is not listed.
- · Annex II REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.
- Regulation (EC) No 273/2004 on drug precursors Substance is not listed.
- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors Substance is not listed.
- · National regulations:
- Water hazard class: Water danger class 3 (Assessment by list): extremely hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product Safety Department
- · Contact: +49 6221 13840-35
- Date of previous version: 22.03.2018
- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

- ICAO: International Civil Aviation Organisation
- *PBT: persistent, bioaccumulative, toxic substance (UK REACH) vPvB: very persistent, very bioaccumulative substance (UK REACH)*
- *UK REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals*
- GB CLP: Regulation on classification, labelling and packaging of substances and mixtures
- *bw: body weight*

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- P: Marine Pollutant
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- *PBT: Persistent, Bioaccumulative and Toxic*
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 4: Acute toxicity Category 4
- Skin Irrit. 2: Skin corrosion/irritation Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

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Trade name: Cetyltrimethylammonium-bromide

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

GB