

Safety Data Sheet  
According to Regulation (EC) 1907/2006



**2054 N-Cetyl-N,N,N-Trimethylammonium Bromide**

**1. Identification of the substance/preparation and of the company or firm**

**1.1 Identification of the substance or preparation**

Name:

N-Cetyl-N,N,N-Trimethylammonium Bromide

**Synonym:**

Cetrimonium Bromide, CTAB, Hexadecyltrimethylammonium Bromide, N,N,N-Trimethyl-1-Hexadecaniminium Bromide

**REACH Registration Number:** A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

**1.2 Use of the substance/preparation:**

For laboratory utilisation, analysis, research and fine chemistry.

**1.3 Identification of the company or firm:**

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: [product.safety@panreac.com](mailto:product.safety@panreac.com)

**1.4 Emergency telephone:**

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

**2. Identification of dangers**

Classification of the substance or the mixture.

**Classification Regulation (CE) n° 1272/2008.**

Acute Tox. 4

Eye Irrit. 2

Skin Irrit. 2

Aquatic Acute 1

## Hazard Pictograms



## Signal word

Warning

## Hazard statements

H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H400 Very toxic to aquatic life.

## Precautionary statements

P264 Wash...thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

## Classification (67/548/CEE or 1999/45/CE).

<b>N</b>	Dangerous for the environment	R50
<b>Xn</b>	Harmful	R36/38
		R22

For the full text of the R-phrases mentioned in this section, see section 16.

## 3. Component Composition/Information

Name: N-Cetyl-N,N,N-Trimethylammonium Bromide  
Formula:  $C_{19}H_{42}BrN$  M.= 364,46 CAS [57-09-0]  
EC number (EINECS): 200-311-3

## 4. First aid

### 4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

### 4.2 Inhaling:

Take the person out into the fresh air. In the event of suffocation, proceed to provide artificial respiration.

### 4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

**4.4 Eyes:**

Wash with plenty of water, keeping eyelids open.

**4.5 Swallowing:**

Drink large amounts of water. Induce vomiting. Seek medical assistance.

**5. Fire-fighting means****5.1 Suitable fire-extinguishing means:**

Water. Carbon dioxide (CO<sub>2</sub>). Foam. Dry powder.

**5.2 Fire-fighting means which must NOT be used:**

No specific data.

**5.3 Special risks:**

Combustible. Keep away from sources of ignition. In the event of fire, toxic fumes may form: NO<sub>x</sub>, Br<sub>2</sub>.

**5.4 Protective equipment:**

Suitable clothing and footwear.

**6. Measures to be taken in the event of accidental spillage****6.1 Individual precautions:**

No special indications.

**6.2 Precautions for care of the environment:**

Avoid pollution of the soil, water supplies and drains.

**6.3 Methods for collection/cleaning:**

Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

**7. Handling and storage****7.1 Handling:**

No special indications.

**7.2 Storage:**

Well sealed containers.

**8. Staff exposure/protection controls****8.1 Technical protective measures:**

No special indications.

**8.2 Exposure limit control:**

: Data not available.

**8.3 Respiratory protection:**

If dust forms, use suitable respiratory protection.

**8.4 Hand protection:**

Use suitable gloves

**8.5 Eye protection:**

Use suitable goggles.

**8.6 Individual hygiene measures:**

Remove contaminated clothing. Wash hands before breaks and when the job is done.

**8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

**9. Physical and chemical properties**

Appearance: solid

Colour: White

Granulometry: N/A

Odour: Characteristic.

pH: 5 - 7 (50 g/l)

Melting point/freezing point: 250 - 256 °C

Initial boiling point and boiling range:

N/A

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density:

N/A

Solubility: 3 g/l in water 20 °C 128 g/l in 28 °C

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: above 250 °C

Viscosity: N/A

**10. Stability and reactivity****10.1 Conditions which should be avoided:**

The product is chemically stable under standard ambient conditions (room temperature).

**10.2 Matter which should be avoided:**

No specific data.

**10.3 Hazardous decomposition products:**

Nitrous fumes.

**10.4 Complementary information:**

No specific data.

**11. Toxicological information**

**11.1 Acute toxicity:**

LD50 oral rat : 410 mg/kg

LD50 ipr mus : 106 mg/kg

**11.2 Dangerous effects for health:**

If dust inhaled: Irritations to the respiratory tracts. Upon contact with the skin:

irritations sensitization allergic reaction Through contact with the eyes: irritations

If swallowed: effects on the central nervous system anxiety spasms cardiovascular disorders breathing difficulties Other dangerous characteristics are not discarded.

Take the usual precautions for handling chemical products.

**12. Environmental information****12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

Fish (Brachidario rerio) 0,3 mg/l

Classification: Extr. toxic

12.1.2. - Receptor medium:

Risk for the water environment

High

Risk for the land environment

Medium

12.1.3. - Observations:

Ecotoxic in water environment.

**12.2 Persistence and Degradability :**

12.2.1 - Test:

12.2.2. - Biotic degradation classification:

BOD5/COD

Biodegradability

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

Data not available.

**12.3 Bioaccumulative potential:**

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

Data not available.

**12.4 Mobility in soil :**

Data not available.

**12.5 Assessment PBT and MPMB :**

Data not available.

**12.6 Other possible effects on the environment:**

Do not allow it to enter soils or water channels.

High toxic product for water.

**13. Considerations regarding elimination**

### **13.1 Substance or preparation:**

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

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### **13.2 Contaminated containers:**

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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## **14. Information concerning transport**

Overland (ADR):

Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
UN 3077 Class: 9 CONTAM. MAR PELIG.M.AMB Packaging group: III (E)

By sea (IMDG):

Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
UN 3077 Class: 9 CONTAM. MAR PELIG.M.AMB Packaging group: III

By air (ICAI-IATA):

Technical name: Environmentally hazardous substance, solid, n.o.s  
UN 3077 Class: 9 CONTAM. MAR PELIG.M.AMB Packaging group: III  
Packaging instructions: CAO 956 PAX 956

## **15. Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## **16. Other information**

### **Other precautionary statements**

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

## **Labelling (65/548/CEE or 1999/45/CE)**

R-phrases(s):   **R50** Very toxic to aquatic organisms.  
                          **R36/38** Irritating to eyes and skin.  
                          **R22** Harmful if swallowed.

S-phrases(s):    **S61** Avoid release to the environment. Refer to  
                          special instructions/safety data sheets.  
                          **S39** Wear eye/face protection.  
                          **S26** In case of contact with eyes, rinse  
                          immediately with plenty of water and seek  
                          medical advice.

Review number and date: 4 15.09.2011

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In respect of the previous review, changes have been made to the following  
sections: 15

The information included in this Safety Data Sheet is based on our most up-to-date  
knowledge, and is solely intended to inform regarding aspects of safety; the  
properties and characteristics indicated herein are not guaranteed.