



Safety Data Sheet

According to Regulation (EC) no. 1907/2006

Product Name
TETRA-N-OCTYLAMMONIUM BROMIDE

1.0 Chemical product and company identification

1.1 Product Identifier

MSDS Name: TETRA-N-OCTYLAMMONIUM BROMIDE
Substance name: TETRA-N-OCTYLAMMONIUM BROMIDE
CAS No: 14866-33-2
PRODUCT CODE:

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance / Mixture: LABORATORY CHEMICALS

Recommended restrictions on use: At this time we do not yet have information of identified uses. They will be included in the safety data sheets when available

1.3 Details of the supplier of the safety data sheet

Company Identification:
SOLUMETRICS LTD,
UNIT 1B SILEBY ROAD INDUSTRIAL ESTATE. BARROW ON SOAR, LEIC'S. LE12 8LP.
For information call. +44 (0)1509 815348
For emergencies call. +44 (0)1509 815348

2.0 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) no 1272/2008

SKIN CORROSION/ IRRITATION	CATEGORY 2
SERIOUS EYE DAMAGE/ EYE IRRITATION	CATEGORY 2A
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)	CATEGORY 3

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Symbols: Xi - Irritant
R - Phrases: None
Risk Combination Phrases: R36/37/38 - Irritating to eyes, respiratory system and skin

HAZARDS SYMBOLS



Signal Word: Warning

Hazard Statements: At this time we do not yet have information of identified uses. They will be included in the safety data sheets when available

Hazard Statements:
H335 MAY CAUSE RESPIRATORY IRRITATION
H315 CAUSES SKIN IRRITATION
H319 CAUSES SERIOUSE EYE IRRATATION

Precautionary statements EU (28,1272/2008)

P305 + P351 + P338 If in EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do continue rinsing
P302 + P352 If on SKIN: Wash with plenty of soap and water
P261 Avoid breathing dust/fumes/gas/mist/vapors/spray
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection

Precautionary statements

Prevention	At this time we do not yet have information of identified uses. They will be included in the safety data sheets when available
Response	At this time we do not yet have information of identified uses. They will be included in the safety data sheets when available
Hazardous components which must be listed on the label:	At this time we do not yet have information of identified uses. They will be included in the safety data sheets when available

3.0 Composition/ Information on ingredients

3.1 Substances

EC No	Component	GHSCLAS	Classification
EEC No. 238-936-9	Tetraoctylammonium Bromide	STOT SE3 (H335) Skin Irrit. 2 (H315) Eye Irrit.2 (H319)	Xi; R36/37/38

Weight %	CAS No
98	14866-33-2

Chemical Nature: CAS 14866-33-2

4.0 First Aid measures

4.1 Description of first aid measures

General Advice

If Inhaled:	Remove person to fresh air immediately. If not breathing give artificial respiration. If breathing is difficult give oxygen. Get medical attention.
In Case of Skin contact:	Get medical attention as soon as possible. Flush the skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash clothing before reuse.
In case of eye contact:	Immediately flush with copious amounts of water for at least 15 minutes occasionally lifting the upper and lower eyelids. Get medical attention as soon as possible.
If Swallowed:	If swallowed DO NOT induce vomiting unless directed by to do so by medical personnel. DO NOT give anything by mouth to an unconscious person. Get medical assistance.

5.0 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Un-Suitable extinguishing Media:	No information Available

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting:	Thermal decomposition can lead to release of irritating gases and vapors
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5.3 Advice for fire-fighters

Special protective equipment for fire-fighters:	Wear a self-contained breathing apparatus in pressure demand, MSHA/NIOSH (approved or equivalent) full protective clothing and equipment.
Further Information:	Wear a self-contained breathing apparatus in pressure demand, MSHA/NIOSH (approved or equivalent), and full protective equipment. During a fire irritating and highly toxic gasses may be generated by thermal decomposition or combustion. Dust from this product can form explosive organic dust cloud.

6.0 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions:	Ensure adequate ventilation Use personal protective equipment Avoid dust formation
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6.2 Environmental precautions:

Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases

6.3 Methods and materials for containment and cleaning up:

Sweep or vacuum up material and place in a suitable container for disposal. Clean up spills immediately observing the precautions in the Protective equipment section. Provide adequate ventilation and avoid generating dusty conditions.

Further Information:

Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

7.0 Handling and storage

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimise dust generation and accumulation. Avoid contact with eyes, skin and clothing. Keep container(s) tightly closed. Avoid ingestion and inhalation.

7.1 Precautions for safe handling**Advice on safe handling:**

Wear personal Protective equipment ensure adequate ventilation do not get in eyes, on skin, or on clothing Avoid ingestion and inhalation avoid dust formation

Hygiene measures:

Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist. Use adequate ventilation to keep airborne concentrations low.

7.2 Conditions for safe storage, including any incompatibilities**Requirements for storage area containers:**

Store in tightly closed containers in cool dry well ventilated area away from incompatible substances

Advice on Protection Against fire and explosion:

The product is not flammable. Normal measures for preventive fire protection.

Further information on storage conditions:

Keep tightly closed in a dry and cool place. Keep in well ventilated place.

Advice on common storage:

Keep away from food, drink and animal feeding stuffs.

8.0 Exposure controls/ personal protection**8.1 Control parameters**

This product, as supplied does not contain and hazardous material with occupational exposure limits established by the region specific regulatory bodies.

Regulatory Basis
Regulatory List
Value Type
Value

UK. EH40 Workplace Exposure Limits (WELs)
 EH40 WEL

8.2 Exposure controls**Engineering measures**

Ensure that eyewash stations and safety showers are close to the workstation location ensure adequate ventilation, especially in confined areas.

Refer to protective measures listed in sections 7 and 8**Personal protective equipment****Respiratory protection****Advice:**

Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standards EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Hand Protection**Advice:**

Wear suitable protective clothing, gloves check for compatibility with the manufacturers' guidelines to prevent skin exposure
Wear appropriate protective clothing to prevent skin exposure.

Eye Protection**Advice:**

Tightly fitting safety goggles
Wear appropriate protective eyeglasses or chemical safety goggles or full face protection. (European standard EN166).

Skin and Body Protection**Advice:**

The selection of personal protective equipment and procedures for use should be based on the work place risk assessment and local legislation. Respiratory protective equipment and gloves etc should be changed at regular intervals as specified in the work place risk assessment and in accordance with the manufacturer's information.

Environmental exposure controls**General advice**

Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities for such cases

9.0 Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form	POWDER, SOLID
Colour	Light Cream
Odour	No Odour
Odour Threshold	
PH	No Data Available
Melting Point	95-99C - 203-210.2F
Boiling Point	No Data Available
Flash Point	No Data Available
Density	No Data Available
Molecular Formula	C32 H68 Br N
Molecular Weight	546.81
Water solubility	Freely Soluble
Ignition Temperature	No Data Available
Oxidizing Properties	No Data Available

10.0 Stability and reactivity**10.1 Reactivity**

No Data Available

10.2 Chemical stability

This Product is Stable under normal conditions (temperature and pressure)

10.3 Possibility of hazardous reactions**Hazardous reaction:**

No Data Available

10.4 Conditions to avoid

Contact with incompatible materials, Dust generation, Excessive heat.

10.5 Incompatible materials**Materials to avoid:**

Materials to avoid
Strong Oxidising agents

10.6 Hazardous decomposition products

Carbon Monoxide
Carbon Dioxide
Nitrogen Oxides
Hydrogen Halides

11.0 Toxicological Information**11.1 Information on toxicological effects****Inhalation****Remarks**

Inhalation may cause pain in respiratory system, sneezing coughing and difficulty in breathing.

Irritation

In case of contact with skin, rinse immediately with plenty of water.

Skin

<u>Eyes</u>	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
<u>Sensitisation</u>	No Information available
<u>Further Information</u>	Not listed as a carcinogen by ACGIH, IARC, NTP or CA prop 65

12.0 Ecological Information

12.1 Toxicity

<u>Acute toxicity</u>	
<u>Fish</u>	
Species	No Ecological data available for this material. They will be included in the safety data sheets when available
Exposure Time	
Value Type Value	
Species	No Ecological data available for this material. They will be included in the safety data sheets when available
Exposure Time	
Value Type Value	

Toxicity to daphnia and other aquatic invertebrates

Species	No Ecological data available for this material. They will be included in the safety data sheets when available
Exposure Time	
Value Type Value	

Bacteria

Species	No Ecological data available for this material. They will be included in the safety data sheets when available
Exposure Time	
Value Type Value	

12.2 Persistence and degradability

<u>Persistence and degradability</u>	
<u>Biodegradability</u>	
Remarks	No Ecological data available for this material. They will be included in the safety data sheets when available

12.3 Bioaccumulative potential

<u>Bioaccumulation</u>	
Remarks	No Ecological data available for this material. They will be included in the safety data sheets when available

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

<u>Additional ecological information</u>	
Remarks	

13.0 Disposal considerations

13.1 Waste treatment methods

Product	Disposal together with normal waste is not allowed. Special disposal required to local regulations. Do not let product enter drains. Contact waste disposal services.
Contaminated Packaging	Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
European Waste Catalogue Number	No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14.0 Transport information

14.1 UN number	Not Regulated
14.2 UN proper shipping name	
ADR	Not Regulated
RID	Not Regulated
IMDG	Not Regulated
14.3 Transport hazard class(es)	
ADR-Class (labels; Classification Code; Hazard Identification No; Tunnel restriction code)	Not Regulated
RID-Class (labels; Classification Code; Hazard Identification No; Tunnel restriction code)	Not Regulated
IMDG-Class (Labels; Ems)	Not Regulated
14.4 Packing group	
ADR	Not Regulated
RID	Not Regulated
IMDG	Not Regulated
14.5 Environmental Hazards	
Labelling according to 5.2.1.8 ADR	Not Regulated
Labelling according to 5.2.1.8 RID	Not Regulated
Labelling according to 5.2.6.3 IMDG	Not Regulated
Classification as environmentally hazardous	Not Regulated
According to 2.9.3 IMDG	Not Regulated
Classified as 'P' according to 2.10 IMDG	Not Regulated
14.6 Special precautions for user	
14.7 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
IMDG	Not Regulated

15.0 Regulatory Information**Component**

EINECS	238-936-9
ELINCS	-
NLP	-
TSCA	-
DSL	-
NDSL	-
PICCS	X
ENCS	-
CHINA	-
AICS	X
KECL	-

Ledgend

TSCA	United States Toxic Substance Control Act Section 8 (b) Inventory
EINECS/ELINCS	European Inventory Lists
DSL/NDSL	Canadian Domestic Substances List/Non-Domestic Substances List
ENCS	Japan Existing and New Chemical Substances
CHINA	China Inventory of existing Chemical Substances
AIC	Inventory of Chemical Substances
KECL	Existing and Evaluated Chemical Substances
PICCS	Philippines Inventory of Chemicals and Chemical Substances

16.0 Other information

Full text of R-Phrases referred to under section 2 and 3

R36	Irritating to eyes.
R37	Irritating to respiratory system.
R38	Irritating to skin.

Full text of H-Statements referred to under section 2 and 3

H335	MAY CAUSE RESPIRATORY IRRITATION
H315	CAUSES SKIN IRRITATION
H319	CAUSES SERIOUSE EYE IRRATATION

Stafety Phrases

S26	In case of contact with eyes, Rinse immediatley with plenty of water and seek medical help
S37	Wear suitable gloves.
S39	Wear eye / face protection.

Remarks	WGK (WATER DANGER/ PROTECTION)
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Other information

This information is based upon Solumetrics Ltd Knowledge of this product at the time this Safety Data Sheet was prepared. It is given in good faith and no warranty is implied. The information is belived to be correct but does not purport to be all inclusive and shall be used only as a guide. The user must satisfy him/her self as to the purpose this product is put to and the possible change in classification should this product be mixed or formulated with other compounds