# SAFETY DATA SHEET

Revision date 22-June-2022

1. Identification		
Product identifier		
Product Name	TETRADECYLTRIMETHYLAMMONIUM BROMIDE, REAGENT	
Other means of identification		
Product Code(s)	T1027	
UN/ID no	UN1759	
Synonyms	None	
Recommended use of the chemical	and restrictions on use	
Recommended use	No information available	
Restrictions on use	No information available	
Details of the supplier of the safety data sheet		
Supplier Address Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000		
Emergency telephone number		

**Emergency Telephone** 

Chemtrec 1-800-424-9300

# 2. Hazard(s) identification

## **Classification**

Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3

# Hazards not otherwise classified (HNOC)

Not applicable

# Label elements

Danger

#### Hazard statements

Causes severe skin burns and eye damage May cause respiratory irritation



Revision Number 1



Physical state Solid

Odor No information available

### **Precautionary Statements - Prevention**

Do not breathe dusts or mists Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area

#### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor Specific treatment (see .? on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Immediately call a POISON CENTER or doctor IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up. Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

May be harmful if swallowed.

# 3. Composition/information on ingredients

#### Substance

Chemical name	CAS No	Weight-%	Trade secret
Tetradecyltrimethylammonium Bromide	1119-97-7	100	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First-aid measures

#### **Description of first aid measures**

General adviceImmediate medical attention is required. Show this safety data sheet to the doctor in<br/>attendance.InhalationRemove to fresh air. If breathing has stopped, give artificial respiration. Get medical<br/>attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the<br/>substance; give artificial respiration with the aid of a pocket mask equipped with a one-way<br/>valve or other proper respiratory medical device. If breathing is difficult, (trained personnel<br/>should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical<br/>advice/attention.

Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.	
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.	
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).	
Most important symptoms and effects, both acute and delayed		
Symptoms	Burning sensation.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.	

5. Fire-fighting measures	
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

Explosion	data
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Sensitivity to mechanical impact none.

Sensitivity to static discharge none.

Special protective equipment for<br/>fire-fightersFirefighters should wear self-contained breathing apparatus and full firefighting turnout<br/>gear. Use personal protection equipment.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.	
Other information	Refer to protective measures listed in Sections 7 and 8.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Pick up and transfer to properly labeled containers.	

# 7. Handling and storage

#### Precautions for safe handling

Advice on safe handlingHandle in accordance with good industrial hygiene and safety practice. Avoid contact with<br/>skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory<br/>equipment. Handle product only in closed system or provide appropriate exhaust<br/>ventilation. Do not eat, drink or smoke when using this product. Take off contaminated<br/>clothing and wash before reuse.Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep containers tightly closed in a dry, cool and well-ventilated place. Protect from<br/>moisture. Store locked up. Keep out of the reach of children. Store away from other<br/>materials.

## 8. Exposure controls/personal protection

# Control parameters **Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here. Appropriate engineering controls Showers **Engineering controls** Evewash stations Ventilation systems. Individual protection measures, such as personal protective equipment Eye/face protection Tight sealing safety goggles. Face protection shield. Hand protection Wear suitable gloves. Impervious gloves. Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Skin and body protection No protective equipment is needed under normal use conditions. If exposure limits are **Respiratory protection** exceeded or irritation is experienced, ventilation and evacuation may be required. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do General hygiene considerations not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

# 9. Physical and chemical properties

Information on basic physical and chemical properties		
Physical state	Solid	
Appearance	Crystalline powder or powder	
Color	White to Off-White	
Odor	No information available	
Odor threshold	No information available	

Property	Values	Remarks • Method
Hq	no data available	None known Neutral
Melting point / freezing point	247 °C / 476.6 °F	None known
Boiling point / boiling range	no data available	None known
Flash point	no data available	None known
Evaporation rate	no data available	None known
Flammability (solid, gas)	no data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Vapor density	no data available	None known
Relative density	1.1	None known
Water solubility	Soluble in water	None known
Solubility(ies)	Slightly soluble in alcohol	None known
	Slightly soluble in chloroform	
Partition coefficient	No data available	None known
Autoignition temperature	no data available	None known
Decomposition temperature		None known
Kinematic viscosity	no data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk density	No information available	
10 Stability and reactivity		
10. Stability and reactivity		

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Exposure to air or moisture over prolonged periods.
Incompatible materials	Acids. Bases. Oxidizing agent.

Hazardous decomposition products None known based on information supplied.

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# 11. Toxicological information

## Information on likely routes of exposure

# **Product Information**

Inhalation	Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage

	including blindness. May cause irreversible damage to eyes.	
Skin contact	Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns.	
Ingestion	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.	
Symptoms related to the physical, chemical and toxicological characteristics		

Symptoms

Redness. Burning. May cause blindness. Coughing and/ or wheezing.

#### Acute toxicity

## Numerical measures of toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Tetradecyltrimethylammonium	= 1000 mg/kg (Rat)	-	-
Bromide	= 3900 mg/kg (Rat)		
1119-97-7			

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes burns. Classification based on data available for ingredients. Risk of serious damage to eyes. Causes burns.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

# 12. Ecological information

Ecotoxicity	The environmental impact of this product has not been fully investigated.
Persistence and degradability Bioaccumulation	No information available. Inherently biodegradable.
Other adverse effects	No information available.

# 13. Disposal considerations

# Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Do not reuse empty containers.

# 14. Transport information

# DOT

DOT UN/ID no Proper Shipping Name: Hazard class Packing group: Special Provisions Marine Pollutant Description: Emergency Response Guide Number	UN1759 Corrosive solids, n.o.s. 8 II 128, IB8, IP2, IP4, T3, TP33 Severe Marine Pollutant UN1759, Corrosive solids, n.o.s., 8, II 154
<u>TDG</u> UN-No: Proper Shipping Name: Hazard class Packing Group: Description:	UN1759 Corrosive solid, n.o.s. 8 II UN1759, Corrosive solid, n.o.s., 8, II
MEX UN-No Proper Shipping Name Hazard class Special Provisions Packing Group Description	UN1759 Corrosive solid, n.o.s. 8 274 II UN1759, Corrosive solid, n.o.s., 8, II
ICAO (air) UN-No: Proper Shipping Name: Hazard class Packing Group: Special Provisions Description:	UN1759 Corrosive solid, n.o.s. 8 II A3 UN1759, Corrosive solid, n.o.s., 8, II
IATA UN number Proper Shipping Name: Transport hazard class(es) Packing group Description:	UN1759 Corrosive solid, n.o.s. 8 II UN1759, Corrosive solid, n.o.s., 8, II
IMDG UN number Proper shipping name Transport hazard class(es) Packing group EmS-No Special Provisions Marine pollutant Description	UN1759 Corrosive solid, n.o.s. 8 II F-A, S-B 274 NP1 UN1759, Corrosive solid, n.o.s., 8, II
<u>RID</u> UN number Proper Shipping Name: Transport hazard class(es) Packing group Classification code Special Provisions	UN1759 Corrosive solid, n.o.s. 8 II C10 274

Description: Labels	UN1759, Corrosive solid, n.o.s., 8, II 8
ADR UN number Proper Shipping Name: Transport hazard class(es) Packing group Classification code Tunnel restriction code Special Provisions Description: Labels	1759 Corrosive solid, n.o.s. 8 II C10 (E) 274 1759, Corrosive solid, n.o.s., 8, II, (E) 8
ADN UN/ID No Proper shipping name Transport hazard class(es) Packing Group Classification code Special Provisions Description Hazard label(s) Limited quantity (LQ) Equipment Requirements	UN1759 Corrosive solid, n.o.s. 8 II C10 274 UN1759, Corrosive solid, n.o.s., 8, II 8 1 kg PP, EP

# 15. Regulatory information

## International Inventories

**TSCA** 

Complies

DSL/NDSL	Complies Complies
EINECS/ELINCS	
ENCS	This product complies with ENCS:
IECSC	This product complies with China:
KECL	Complies
PICCS	Does not Comply
AICS	All the constituents of this material are listed on the Australian Inventory of Chemical
	Substances (AICS).

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

#### US Federal Regulations

#### <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# 16. Other information

NFPA Health hazards 3 Flammability 0 Instability 0 Physical and chemical properties -HMIS Health hazards 3 Flammability 0 Physical hazards 0 Personal protection X Key or legend to abbreviations and acronyms used in the safety data sheet Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION TWA TWA (time-weighted average) STEL (Short Term Exposure Limit) STEL Ceiling Maximum limit value Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date Revision Note Disclaimer 22-June-2022 No information available.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### End of Safety Data Sheet