

Revision number: 2 Revision date: 10/06/2014

IDENTIFICATION 1.

Product name:

TCI AMERIO	CA
SAFETY DATA SHI	EET

Tetrabutylammonium Bromide [Reagent for Ion-Pair Chromatography]

Product code: 10365 For laboratory research purposes. Product use: Restrictions on use: Not for drug or household use. Company: Emergency telephone number: TCI America Chemical Emergencies: TCI America (8:00am - 5:00pm) PST 9211 N. Harborgate Street Portland, OR 97203 U.S.A. +1-503-286-7624 Telephone: Transportation Emergencies: +1-800-423-8616 / +1-503-283-1681 Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) Fax: +1-888-520-1075 / +1-503-283-1987 +1-703-527-3887 (International) **Responsible department:** e-mail: sales-US@TCIchemicals.com **TCI** America Environmental Health Safety and Security www.TCIchemicals.com +1-503-286-7624 2. HAZARD(S) IDENTIFICATION OSHA Haz Com: CFR 1910.1200: Acute Toxicity - Oral [Category 4] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A] Signal word: Warning! Hazard Statement(s): Causes serious eye irritation Causes skin irritation Harmful if swallowed Pictogram(s) or Symbol(s): Precautionary Statement(s): [Prevention] Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection. [Response] If swallowed: Immediately call a poison center or doctor. Rinse mouth. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and

[Storage] [Disposal] wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

3. COMPOSITION/INFORMATION ON INGREDIENTS

None

Substance/Mixture: Components: Percent:

Substance Tetrabutylammonium Bromide [Reagent for Ion-Pair Chromatography] >99.0%(T)

Personal protective equipment:

Emergency procedures:

3. COMPOSITION/INFORM	ATION ON INGREDIENTS	
CAS Number:	1643-19-2	
Molecular Weight:	322.38	
Chemical Formula: Synonyms:	C ₁₆ H ₃₆ BrN IPC-TBA-Br	
4. FIRST-AID MEASURES		

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Inhalation:	Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and
Skin contact:	take precautions to protect themselves. Call a poison center or doctor if you feel unwell. Remove and wash contaminated clothing before re-use. Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately
Eye contact:	flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with material may irritate or burn eyes. Call emergency medical service. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of
Ingestion:	exposure to substance may be delayed. Ensure that medical personnel area ware of the material(s) involved and take precautions to protect themselves. Harmful if swallowed. Do not induce vomiting with out medical advice. If swallowed, seek medical advice immediately and show the container or label. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Symptoms/effects:	
Acute: Delayed:	Redness. No data available
Immediate medical attention:	WARNING: It might be hazardous to the person providing aid to give mouth-to-mouth respiration, because the inhaled material is harmful. If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, CO_2 , sand, earth, water spray or regular foam Consult with local fire authorities before attempting large scale fire fighting operations.
Specific hazards arising from the chem	ical
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Nitrogen oxides Halogenated compounds Closed containers may explode from heat of a fire.
heated. Move containers from fire area if y Special protective equipment for fire-fig Wear positive pressure self-contained brea	
6. ACCIDENTAL RELEASE MEASU	RES
Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile). Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing

confined areas; dike if needed.

appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or

6. ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. **Environmental precautions:**

Keep away from living quarters. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

Precautions for safe handling:	Avoid inhalation of vapor or mist. Do not ingest. Avoid contact with skin and eyes. Good general ventilation
	should be sufficient to control airborne levels. Keep container dry. Handle and open container with care.
	Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke
	Keep away from sources of ignition.
Conditions for safe storage:	Keep only in the original container in a cool well-ventilated place. Keep away from incompatibles.
	Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid
	prolonged storage periods. Store under inert gas (e.g. Argon). Hygroscopic material, store in a tightly
	sealed container.
Storage incompatibilities:	Store away from oxidizing agents

B. EXPU	JSURE CONT	RULS / PERS	ONAL PROT	ECTION

Exposure limits:

No data available

Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment	
Respiratory protection:	Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.
Hand protection:	Nitrile gloves.
Eye protection:	Safety glasses.
Skin and body protection:	Lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder White - Almost white No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	103°C (217°F) No data available No data available No data available No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:	3.5 - 7.0 (50g/L H2O 25°C) No data available No data available No data available
Partition coefficient: n-octanol/water (log P _{ow})	No data available	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limit: Lower: No data av Upper: No data av	vailable
Solubility(ies): Water: Soluble			

Water: Soluble Soluble: Alcohols

10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products: Not Available. Stable under recommended storage conditions. (See Section 7) No hazardous reactivity has been reported. Avoid excessive heat and light. Moisture, Strong oxidizing agents No data available 11. TOXICOLOGICAL INFORMATION

Acute Toxic No data avai					
Skin corros No data avai	ion/irritation: lable				
Serious eye No data avai	damage/irritation: lable				
Respiratory No data avai	or skin sensitization: lable				
Germ cell m No data avai	utagenicity: lable				
Carcinogen	icity:				
No data avai	lable				
IARC:	No data available	NTP:	No data available	OSHA:	No data available
Reproductiv No data avai					
Routes of E		Inhalation, Eye co	ntact, Ingestion, Skin contac		
Overexposu blistering. Sk	related to exposure: re may result in serious illness or kin contact may result in redness ealth Effects:				g, scaling, reddening, or occasionally
Skin and eye Target orga	e contact may result in irritation. n(s):	No data available			
12. ECOLO	OGICAL INFORMATION				
Ecotoxicity					
Fish		No data available			
Crus Alga	itacea: e:	No data available No data available			
	and degradability:	No data available			
	ative potential (BCF):	No data available			
Mobillity in Partition co		No data available No data available			
	ater (log Pow)				
Soil adsorp	tion (Koc):	No data available			
Henry's Law constant (Pa		No data available			
	SAL CONSIDERATIONS				
Disposal of	product:	rules and regulation chemical incinerate assistance but doer regulatory complia	ons. You may be able to diss or equipped with an afterbur es not replace these laws, no ince according to the law. US 140 CFR Parts 261. The pro	blve or mix material with her and scrubber syster r does compliance in a S EPA guidelines for Ide	mply with Federal, State and Local n a combustible solvent and burn in a n. This section is intended to provide ccordance with this section ensure entification and Listing of Hazardous wed to enter the environment, drains,
Disposal of Other consi		Dispose of as unu	sed product. Do not re-use e Il, state and local regulations		substance.
	au al 013.			mon disposing of the	
14 TRANS	SPORT INFORMATION				

Non-hazardous for transportation.

14. TRANSPORT INFORMATION

IATA

Non-hazardous for transportation.

IMDG

Non-hazardous for transportation.

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity: SARA 313: Not Listed SARA 302: Not Listed

State Regulations

State Right-to-Know

Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
California Proposition 65:	Not Listed

Other Information

NFPA Rating:

Health:	2
Flammability:	0
Physical:	0
	Flammability:

216-699-2

International Inventories

WHMIS hazard class:

EC-No:

16. OTHER INFORMATION

Revision date: 10/06/2014

Revision number: 2

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

HMIS Classification:

D2A: Materials causing other toxic effects. (Very Toxic) D2B: Materials causing other toxic effects. (Toxic)