

**Revision number:** 1 Revision date: 07/06/2018

# 1. IDENTIFICATION

1. IDENTIFICATION		
Product name: Product code:	tert-Butyl Acetate A0026	
Product use: Restrictions on use:	For laboratory research purposes. Not for drug or household use.	
Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com		Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) <b>Responsible department:</b> TCI America Environmental Health Safety and Security +1- 503-286-7624
2. HAZARD(S) IDENTIFICATION		
OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Inhalation [Category 4] Eye Damage/Irritation [Category 2B] Specific Target Organ Toxicity (Single Exposure) [Catego Flammable Liquids [Category 2]	ory 3]
Signal word:	Danger!	
Hazard Statement(s):	Highly flammable liquid and vapor Harmful if inhaled Causes eye irritation May cause respiratory irritation. May cause drowsiness o	r dizziness.
Pictogram(s) or Symbol(s):		

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SAFETY DATA SHEET

Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal]

Hazards not otherwise classified: [HNOC]

Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist, vapors or spray. Use only outdoors or in a well-ventilated area. Wash hands and face thoroughly after handling. Wear protective gloves, eye protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. 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. In case of fire: Use dry chemical, dry sand or foam to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

May be harmful if swallowed.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	tert-Butyl Acetate
Percent:	>99.0%(GC)
CAS RN:	540-88-5
Molecular Weight:	116.16
Chemical Formula:	C6H12O2
Synonyms:	Acetic Acid tert-Butyl Ester
4. FIRST-AID MEASURES	
Description of first aid measu	Ires
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON
Innalation.	CENTER or doctor/physician if you feel unwell.
Skin contact:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation
Skill contact.	or rash occurs: Get medical advice/attention.
Evo contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Eye contact:	Continue ringer if que irritetion participate: Cet medical advination

Get medical advice/attention if you feel unwell. Rinse mouth. Ingestion: Symptoms/effects: Acute: Dizziness. Redness. Drowsiness. Delayed: No data available

Indication of any immediate medical attention: Not available. Notes to physician: No data available

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, foam, carbon dioxide.
Unsuitable extinguishing media:	Water (It may scatter and spread fire.)
Hazardous combustion products:	These products include: Carbon oxides
Other specific hazards:	Closed containers may explode from heat of a fire.
Advice for firefighters:	Wear self-contained breathing apparatus if possible.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up: Prevention of secondary hazards:	Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc. Prevent product from entering drains. Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.
7. HANDLING AND STORAGE	
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.
Conditions for safe storage, including a Storage conditions: Packaging material:	

skin irritation

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: ACGIH TLV(TWA): OSHA PEL(TWA):	200 ppm 200 ppm
Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.
Personal protective equipment	
Respiratory protection:	Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless Fruity No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity:	-62°C (-80°F) 96°C (205°F) No data available 0.87 No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity:	No data available No data available. 4.0 No data available
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point: Flammability(solid, gas):	15°C (59°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	No data available 1.5% No data available
Solubility(ies): [Water] [Other solvents] Miscible:	Insoluble Ether, Alcohols	opport	

## 10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products:

No data available Stable under proper conditions. No special reactivity has been reported. Spark, Open flame, Static discharge Oxidizing agents, Acids, Bases Carbon dioxide, Carbon monoxide **TCI AMERICA** 

## **11. TOXICOLOGICAL INFORMATION**

### RTECS Number: AF7400000

Acute Toxicity: orl-rat LD50:4100 mg/kg ihl-rat LC50:>2230 mg/m³/4H		skn-rbt LD50:>2 ç	g/kg	
Skin corrosion/irritation: skn-rbt 500 uL MLD				
Serious eye damage/irritation: eye-rbt 100 uL MLD				
Respiratory or skin sensitization: No data available				
Germ cell mutagenicity: No data available				
Carcinogenicity: No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
<b>Reproductive toxicity:</b> orl-rat TDLo:22400 mg/kg (6-19D preg)				
Target organ(s): May cause respiratory irritation. May cause drowsiness or dizziness.				
12. ECOLOGICAL INFORMATION				
Ecotoxicity:				
Fish:	No data available			
Crustacea:	No data available			
Algae:	No data available			
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available 10			
Log Pow:	1.76			
Soil adsorption (Koc):	200			
Henry's Law (PaM ³/mol):	No data available			
13. DISPOSAL CONSIDERATIONS				
Listed waste	U113/Ethyl acetate	e (l)		
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.			
Disposal of container: Other considerations:		sed product. Do not re-use e al, state and local regulations		ne substance.

#### 14. TRANSPORT INFORMATION

DOT (US) UN number: UN1123	Proper Shipping Na Butyl acetates	Class or Division: 3 Flammable liquid	Packing Group:
IATA UN number: UN1123	Proper Shipping Na Butyl acetates	<b>Class or Division</b> : 3 Flammable liquid	Packing Group: II
IMDG UN UN1123 numb er:	<b>Proper Shipping Na</b> Butyl acetates	e: <b>Class or Division</b> : 3 Flammable liquid	Packing Group: II
EmS number: Reportable Quanti	tiy:	E, S-D 000 Pounds (2270 Kilograms)	

#### 15. REGULATORY INFORMATION

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

US Federal Regu				
CERCLA Hazardo	ous substance	e and Reportable Quantity:		
SARA 313:		Not Listed		
SARA 302:		Not Listed		
State Regulation	<u>s</u>			
State Right-to-Kr	low			
Massachuse	tts	Listed		
New Jersey		Listed		
Pennsylvania	a	Listed		
California Propos	sition 65:	Not Listed		
Other Information	<u>n</u>			
NFPA Rating:			HMIS Classification:	
Health:	2		Health:	
Flammability:	3		Flammability:	
Instability:	0		Physical:	
International Inve	entories			
Canada: DSL		On DSL		
EC-No:		208-760-7		
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#### 16. OTHER INFORMATION

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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.

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