

Revision number: 2 Revision date: 11/10/2015

1. IDENTIFICATION

Product name: Product code: Butyl Valerate B4322

Product use: Restrictions on 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

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A] Flammable Liquids [Category 4]

Signal word:

Warning!

Hazard Statement(s):

Causes serious eye irritation Causes skin irritation Combustible liquid

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection.
Keep away from heat, sparks, open flames or other hot surfaces. - No smoking. Wear protective gloves, eye protection and face protection.
If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and 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. In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish.
Store in well-ventilated place. Keep cool.
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

Substance/Mixture:

Substance

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) **Responsible department:** TCI America Environmental Health Safety and Security +1- 503-286-7624

For laboratory research purposes. Not for drug or household use.

TCI AMERICA SAFETY DATA SHEET

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3. COMPOSITION/INFORMATION	I ON INGREDIENTS	
Components:	Butyl Valerate	
Percent:	>98.0%(GC)	
CAS Number:	591-68-4	
Molecular Weight:	158.24	
Chemical Formula:	$C_9H_{18}O_2$	
Synonyms:	Valeric Acid Butyl Ester , Butyl Pentanoate , Pentanoic Acid Butyl Ester	
4. FIRST-AID MEASURES		
Inhalation:	Call emergency medical service. Move victim to fresh air. Give artificial respira Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat sy supportively. Ensure that medical personnel are aware of the material(s) involv protect themselves.	mptomatically and
Skin contact:	Call a poison center or doctor if you feel unwell. Remove and wash contaminat case of contact with substance, immediately flush skin with running water for a symptomatically and supportively. Ensure that medical personnel are aware of take precautions to protect themselves.	t least 20 minutes. Treat
Eye contact:	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping e material may irritate or burn eyes. Call emergency medical service. Move victir remove any contact lenses. Keep victim warm and quiet. Treat symptomatically exposure to substance may be delayed. Ensure that medical personnel are aw involved and take precautions to protect themselves.	n to fresh air. Check for and y and supportively. Effects of
Ingestion:	Do not induce vomiting with out medical advice. If swallowed, seek medical ad the container or label. Do not use mouth-to-mouth method if victim ingested the respiration with the aid of a pocket mask equipped with a one-way valve or oth medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If in the recovery position so that vomit will not reenter the mouth and throat. Rin and quiet. Treat symptomatically and supportively. Ensure that medical person material(s) involved and take precautions to protect themselves.	e substance; give artificial er proper respiratory a person vomits place them se mouth. Keep victim warm
Symptoms/effects:		
Acute: Delayed:	No data available No data available	
Immediate medical attention:	If breathing has stopped, perform artificial respiration. Use first aid treatment an injury. Ensure that medical personnel are aware of the material(s) involved and themselves.	
5. FIRE-FIGHTING MEASURES		
Suitable extinguishing media:	Dry chemical, CO ₂ , water spray, or alcohol-resistant foam. Consult with local fi attempting large scale fire fighting operations.	re authorities before
Specific hazards arising from the che	emical	
Hazardous combustion products:	None	
Other specific hazards:	Closed containers may explode from heat of a fire.	
have a very low flash point: Use of wate explosion hazard. Containers may explo Special protective equipment for fire-		ewer may create fire or
Wear positive pressure self-contained b	reathing apparatus (SCBA). Structural fire fighters' protective clothing provides limite	d protection in fire situations

Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Use spark- proof tools and explosion-proof equipment. Remove all sources of ignition. 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.
Personal protective equipment:	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. Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).

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6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:

Isolate area until gas has dispersed. 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 appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). All equipment used when handling the product must be grounded. 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:

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.

7. HANDLING AND STORAGE	
Precautions for safe handling:	Do NOT breath gas, fumes, vapor, or spray. Avoid contact with skin and eyes. Keep away from heat and sources of ignition. Use explosion-proof equipment. Use only non-sparking hand tool when handling this product. Ground all equipment containing material. Take measures to prevent build up of electrostatic charge. 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 sources of ignition. Store and use away from heat, sparks, open flame, or any other ignition source. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods.
Storage incompatibilities:	Store away from oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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:Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.Hand protection:Wear protective gloves.Eye protection:Splash goggles.Skin and body protection:Lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Liquid Clear Colorless - Very pale yellow No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	-93°C (Freezing point) (-135°F) 185°C (365°F) No data available 0.87 No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:	No data available No data available No data available 1.35mPa·s (20°C)
Partition coefficient: n-octanol/water (log P _{ow})	No data available	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	67°C (153°F) No data available	Autoignition temper Flammability or expl Lower: Upper:	

Solubility(ies):

Reactivity: Chemical Stability: **TCI AMERICA**

Not Available.

10. STABILITY AND REACTIVITY

Possibility of Hazardous Reactions:

Conditions to avoid: Incompatible materials: Hazardous Decomposition Products:	Avoid excessive he Oxidizing agents No data available	eat and light.		
11. TOXICOLOGICAL INFORMATION				
Acute Toxicity: No data available				
Skin corrosion/irritation: No data available				
Serious eye damage/irritation: No data available				
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
Reproductive toxicity: No data available				
Routes of Exposure:	Inhalation. Eve cor	ntact, Ingestion, Skin con	tact.	
Symptoms related to exposure: Skin contact may result in inflammation; char or dry skin. Eye contact may result in rednes Potential Health Effects:	acterized by itching	-		contact may result in redness, pain
Skin and eye contact may result in irritation. Target organ(s):	No data available			
12. ECOLOGICAL INFORMATION				
Ecotoxicity				
Fish:	No data available			
Crustacea:	No data available			
Algae:	No data available			
Persistence and degradability: Bioaccumulative potential (BCF):	No data available No data available			

Stable under recommended storage conditions. (See Section 7)

In use, may form flammable/explosive vapor-air mixture.

 Bioaccumulative potential (BCF):
 No data available

 Mobillity in soil:
 No data available

 Partition coefficient:
 No data available

 n-octanol/water (log Pow)
 Soil adsorption (Koc):

 Soil adsorption (Koc):
 No data available

 Henry's Law:
 No data available

 constant (PaM³/mol)
 No

13. DISPOSAL CONSIDERAT	IONS		
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:	Dispose of as unused product. Do not re-use empty containers.		
Other considerations:	Observe all federal, state and local regulations when disposing of the substance.		
14. TRANSPORT INFORMATI	ON		
DOT (US)	Non-hazardous for transportation.		
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 s SARA 313: SARA 302:	ubstance and Reportable Quantity: Not Listed Not Listed		
State Regulations			
State Right-to-Know			
Massachusetts New Jersey Pennsylvania California Proposition	Not Listed Not Listed		
Other Information			
NFPA Rating:		HMIS Classification:	
Health: 0 Flammability: 0 Instability: 0		Health: Flammability: Physical:	
International Inventor	es		
EC-No:	209-728-5		

16. OTHER INFORMATION

Revision date: 11/10/2015

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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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