

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

#### 1. IDENTIFICATION

Product name: Product code:

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

**Butyl Isovalerate** 

B3718

**TCI AMERICA** 

SAFETY DATA SHEET

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

> 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)

+1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1- 503-286-7624

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Flammable Liquids [Category 3]
Signal word:	Warning!
Hazard Statement(s):	Flammable liquid and vapor
Pictogram(s) or Symbol(s):	
Precautionary Statement(s): [Prevention]	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. Wear protective gloves, eye protection.
[Response]	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. In case of fire: Use dry chemical, dry sand or foam to extinguish.
[Storage]	Store in a well-ventilated place. Keep cool.
[Disposal]	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.).
Hazards not otherwise classified: [HNOC]	Causes mild skin irritation.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula: Synonyms: Substance Butyl Isovalerate >98.0%(GC) 109-19-3 158.24 C9H18O2 Isovaleric Acid Butyl Ester

4. FIRST-AID MEASURES			
Description of first aid measures Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical		
Skin contact:	advice/attention if you feel unwell. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. 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/attention. Get medical advice/attention if you feel unwell. Rinse mouth.		
Eye contact:			
Ingestion:			
Symptoms/effects:			
Acute:	No data available No data available		
Delayed:	No data available		
Indication of any immediate medical att Not available.	ention:		
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.		
6. ACCIDENTAL RELEASE MEASU	RES		
Personal precautions, protective equipment and emergency procedures:	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.		
Environmental precautions:	Prevent product from entering drains.		
Methods and materials for containment and cleaning up:	case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be		
Provention of accordary bezarda	promptly disposed of, in accordance with appropriate laws and regulations.		
Prevention of secondary hazards:	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:			
Storage conditions.	Store away from incompatible materials such as oxidizing agents.		
Packaging material:	Comply with laws.		
8. EXPOSURE CONTROLS / PERSO	DNAL PROTECTION		
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:	Vapor respirator. Follow local and national regulations.		

Respiratory protection:	Vapor respirator. Follow local and national regulations.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. A face-shield, if the situation requires.
Skin and body protection:	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 - Almost colo No data available No data available No data available No data available	orless	
Melting point/freezing point:	No data available	pH:	No data available
Boiling point/range:	176°C (349°F)	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	5.45
Relative density:	0.86	Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available		
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point: Flammability(solid, gas):	53°C (127°F) No data available	Autoignition temperature: Flammability or explosive limits:	No data available
		Lower:	No data available
		Upper:	No data available
Solubility(ies):			
[Water]	No data available		
[Other solvents]	No data available		
10. STABILITY AND REACT	IVITY		
Reactivity: Chemical stability: Possibility of hazardous reactio Conditions to avoid: Incompatible materials: Hazardous decomposition prod	Spark, Open flame, Sta Oxidizing agents	is been reported. atic discharge	
11. TOXICOLOGICAL INFOR	RMATION		
RTECS Number: NY1502000			
<b>Acute Toxicity:</b> orl-rat LD50:>5 g/kg skn-rbt LD50:>5 g/kg		orl-rbt LD50:8230 mg/kg	

Skin corrosion/irritation: skn-rbt 500 mg/24H MLD

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

Reproductive toxicity: No data available

Target organ(s):

No data available

NTP: No data available

OSHA: No data available

# 12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative potential(BCF): Mobility in soil	No data available
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM ³/mol):	No data available
13. DISPOSAL CONSIDERATION	IS
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 advented to provide according to the parts 261.

be allowed to enter the environment, drains, water ways, or the soil.

Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.

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**Disposal of container:** Other considerations:

# 14. TRANSPORT INFORMATION

# DOT (US)

UN3272	Proper Shipping Name: Esters, n.o.s	Class or Division: 3 Flammable liquid	Packing Group: III
IATA UN number: UN3272	Proper Shipping Name: Esters, n.o.s	<b>Class or Division:</b> 3 Flammable liquid	Packing Group: III
IMDG UN UN3272 numb er:	Proper Shipping Name: Esters, n.o.s	<b>Class or Division:</b> 3 Flammable liquid	Packing Group: III

#### EmS number:

F-E, S-D

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# 15. REGULATORY INFORMATION

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

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#### **US Federal Regulations**

CERCLA Hazardo	ous substance a	and Reportable Quantity:	
SARA 313:		Not Listed	
SARA 302:		Not Listed	
State Regulations	<u>8</u>		
State Right-to-Kn	ow		
Massachuse	ts	Listed	
New Jersey		Listed	
Pennsylvania	a	Not Listed	
California Proposition 65:		Not Listed	
Other Information	<u>1</u>		
NFPA Rating:			HMIS Classification:
Health:	2		Health:
Flammability:	2		Flammability:
Instability:	0		Physical:
International Inve	entories		
Canada: DSL		On DSL	
EC-No:		203-654-7	

#### 16. OTHER INFORMATION

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

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.