

Revision number: 1.1 Revision date: 07/06/2018

1. IDENTIFICATION

TCI AMERICA SAFETY DATA SHEET

Product name: Etoposide Product code: E0675 For laboratory research purposes. Product use: **Restrictions on use:** Not for drug or household use. Company: Emergency telephone number: Chemical Emergencies: TCI America 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) e-mail: **Responsible department:** 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] Germ Cell Mutagenicity [Category 1B] WHMIS 2015: Carcinogenicity [Category 1A] Toxic to Reproduction [Category 1A] Effects on or Via Lactation Specific Target Organ Toxicity (Single Exposure) [Category 2] Specific Target Organ Toxicity (Repeated Exposure) [Category 1] Signal word: Danger! Hazard Statement(s): Harmful if swallowed May cause genetic defects May cause cancer May damage fertility or the unborn child May cause harm to breast-fed children May cause damage to organs: organs Causes damage to organs through prolonged or repeated exposure: Bone Marrow Lung Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust, fume, mist, vapors or spray. Avoid contact during pregnancy or while nursing. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection. If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. If exposed or concerned:

Call a poison center or doctor. 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.).

Hazards not otherwise classified: [HNOC]

None.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	Etoposide
Percent:	>98.0%(HPLC)
CAS RN:	33419-42-0
Molecular Weight:	588.56
Chemical Formula:	C29H32O13
Synonyms:	4'-Demethylepipodophyllotoxin 9-(4,6-O-Ethylidene-β-D-glucopyranoside)

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. Call a POISON CENTER or doctor/physician.				
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Call a POISON CENTER or doctor/physician.				
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Call a POISON CENTER or doctor/physician.				
Ingestion:	Call a POISON CENTER or doctor/physician. Rinse mouth.				
Symptoms/effects:					
Acute:	No data available				
Delayed:	Possibly carcinogenic to humans.				
Indication of any immediate medical	attention:				
Not available.					
Notes to physician:					

Notes to physician: No data available

5. FIRE-FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up:	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc. Prevent product from entering drains. Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
7. HANDLING AND STORAGE	
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.
Conditions for safe storage, including a Storage conditions:	Avoid all contact! ny incompatibilities Keep container tightly closed. Store in a cool and dark place. Store locked up. Store away from incompatible materials such as oxidizing agents. Light-sensitive
Packaging material:	Comply with laws.

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8. EXPOSURE CONTROLS / PERSONAL 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:	Dust 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:	Solid Crystal - Powder White - Almost white No data available No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	251°C (484°F) No data available No data available No data available No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. No data available No data available No data available
Flash point: Flammability(solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	No data available No data available No data available
Solubility(ies): [Water] [Other solvents] Very soluble: Slightly soluble:	Very slightly soluble Methanol, Chloroform Ethanol		

10. STABILITY AND REACTIVITY

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

No data available Stable under proper conditions. No special reactivity has been reported. Oxidizing agents Carbon dioxide, Carbon monoxide

11. TOXICOLOGICAL INFORMATION

RTECS Number: KC0190000

Acute Toxicity: ivn-chd TDLo:18 ivn-wmn TDLo:1 orl-rat LD50:178	60 ug/kg/3M-C		ivn-man TDLo:57 u orl-hmn TDLo:16 n		
Skin corrosion/ No data availabl					
Serious eye dar No data availabl					
Respiratory or No data availabl	skin sensitization: e				
Germ cell muta dnd-hmn-oth 2 u mnt-ham-Ing 1.8	mol/L		mmo-sat 500 ug/pl	late (+S9)	
Carcinogenicity No data availabl					
	roup 1 (Carcinogenic to umans).	NTP:	No data available	OSHA:	No data available
ipr-mus TDLo:1	Reproductive toxicity:ipr-mus TDLo:1 mg/kg (8D preg)orl-rat TDLo:44 mg/kg (mutigenerations)				
	damage to organs: organs		exposure: Bone Marrow Lung	I	
12. ECOLOGI	CAL INFORMATION				
Ecotoxicity:					
Fish:		No data available			
Crustace	a:	No data available			
Algae:		No data available			
Persistence / de Bioaccumulativ Mobility in soil	egradability: e potential(BCF):	No data available 3			
Log Pow		0.60			
	orption (Koc):	51			
	_aw (PaM ³/mol):	1.7 x 10 ⁻²⁵			
	L CONSIDERATIONS				
Disposal of pro	duct:	Local rules and re and burn in a cher intended to provid with this section e Identification and	egulations. You may be able to mical incinerator equipped with le assistance but does not repl nsure regulatory compliance a	dissolve or mix ma an afterburner and ace these laws, no according to the law e listed in 40 CFR	Parts 261. The product should not
Disposal of cor	tainer:		ised product. Do not re-use en		

Disposal of container: Other considerations: Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance. **TCI AMERICA**

14. TRANSPORT INFORMATION			
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 NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:

SARA 313:		Not Listed	
SARA 302:		Not Listed	
State Regulation	5		
State Right-to-Kr	ow		
Massachuse	tts	Not Listed	
New Jersey		Not Listed	
Pennsylvania	a	Not Listed	
California Propos	sition 65:	Listed	
Other Information	<u>n</u>		
NFPA Rating:			HMIS Classification:
Health:	2		Health:
Flammability:	0		Flammability:
Instability:	0		Physical:
International Inve	entories		
Canada: DSL		On DSL	
EC-No:		251-509-1	

16. OTHER INFORMATION

Revision date: 07/06/2018 Revision number: 1.1

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.

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