

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

### 1. IDENTIFICATION

9211 N. Harborgate Street Portland, OR 97203 U.S.A.

Product name:

Product code:

Product use: **Restrictions on use:** 

Company:

TCI America

Telephone:

Fax:

e-mail:

# **TCI AMERICA** SAFETY DATA SHEET

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

2. HAZARD(S) IDENTIFICATION

+1-800-423-8616 / +1-503-283-1681

+1-888-520-1075 / +1-503-283-1987

sales-US@TCIchemicals.com

www.TCIchemicals.com

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Oral [Category 4] Eye Damage/Irritation [Category 1] Carcinogenicity [Category 2] Toxic to Reproduction [Category 2] Specific Target Organ Toxicity (Repeated Exposure) [Category 2] Aquatic Hazard (Acute) [Category 1] Aquatic Hazard (Long-Term) [Category 1]
Signal word:	Danger!
Hazard Statement(s):	Harmful if swallowed Causes serious eye damage Suspected of causing cancer Suspected of damaging fertility or the unborn child Very toxic to aquatic life Very toxic to aquatic life Very toxic to aquatic life with long lasting effects May cause damage to organs through prolonged or repeated exposure: Digestive Tract

C0428

#### Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention] 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 release to the environment. 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 in eyes: Rinse cautiously [Response] with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. If exposed or concerned: Get medical advice or attention. Collect spillage. Store locked up. [Storage] [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: None. [HNOC]

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	Crystal Violet Hydrate
Percent:	
CAS RN:	548-62-9
Molecular Weight:	407.99(Anh)
Chemical Formula:	C <sub>25</sub> H <sub>30</sub> ClN <sub>3</sub> ·xH <sub>2</sub> O
Synonyms:	Basic Violet 3 Hydrate , Hexamethylpararosaniline Chloride Hydrate
Color Index Number:	42555
Color Index Number:	42555

## 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 advice/attention.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention.
Ingestion:	Get medical advice/attention.Rinse mouth.
Symptoms/effects:	
Acute:	Pain. Redness.
Delayed:	Possibly carcinogenic to humans.

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

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
Specific hazards arising from the chemical:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Nitrogen oxides Halogenated compounds WARNING: Highly toxic HCI gas is produced during combustion.
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:	Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned.		
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. Avoid all contact!		
Conditions for safe storage, including any incompatibilities			
Storage conditions:	Keep container tightly closed. Store in a cool and dark place. Store locked up. Store away from incompatible materials such as oxidizing agents.		
Packaging material:	Comply with laws.		

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.
Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Impervious gloves.
Safety goggles. A face-shield, if the situation requires.
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 Yellow green - Deep green No data available No data available No data available		
Melting point/freezing point:	211°C (dec.) (412°F)	pH:	No data available
Boiling point/range:	No data available	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	No data available
Relative density:	No data available	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):	No data available No data available	Autoignition temperature: Flammability or explosive limits:	No data available
		Lower:	No data available
		Upper:	No data available
Solubility(ies): [Water] [Other solvents]	No data available No data available		

# 10. STABILITY AND REACTIVITY

Reactivity:No data availableChemical stability:Stable under proper conditions.Possibility of hazardous reactions:No special reactivity has been reported.Incompatible materials:Oxidizing agentsHazardous decomposition products:Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Hydrogen chloride

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## 11. TOXICOLOGICAL INFORMATION RTECS Number: BO9000000 Acute Toxicity: ipr-rat LD50:8900 ug/kg orl-rat LD50:420 mg/kg Skin corrosion/irritation: skn-hmn 3 mg/3D-I MLD skn-hmn 2 mg/2D-I MLD Serious eye damage/irritation: No data available Respiratory or skin sensitization: No data available Germ cell mutagenicity: mmo-sat 100 ng/plate (+S9) mmo-sat 500 ng/plate (-S9) cyt-hmn-hla 500 ug/L Carcinogenicity: No data available IARC: No data available NTP: No data available No data available OSHA: Reproductive toxicity: orl-rat TDLo:40 mg/kg (6-15D preg) orl-rbt TDLo:7 mg/kg (6-19D preg) Target organ(s): May cause damage to organs through prolonged or repeated exposure: Digestive Tract

Ecotoxicity:		
Fish:	No data available	
Crustacea:	No data available	
Algae:	No data available	
Persistence / degradability:	No data available	
Bioaccumulative potential (BCF):	3.2	
Mobility in soil		
Log Pow:	0.51	
Soil adsorption (Koc):	4 x 10 <sup>6</sup>	
Henry's Law (PaM ³/mol):	3.1 x 10 <sup>-11</sup>	

### 13. DISPOSAL CONSIDERATIONS

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 INFORMATION

DOT (US) UN number: UN3077	<b>Proper Shipping Name:</b> Environmentally hazardous substance, solid, n.o.s	Class or Division: 9 Miscellaneous hazardous material	Packing Group: III
IATA_ UN number: UN3077	<b>Proper Shipping Name:</b> Environmentally hazardous substance, solid, n.o.s	<b>Class or Division:</b> 9 Miscellaneous hazardous material	Packing Group: III
IMDG UN UN3077 numb er:	<b>Proper Shipping Name:</b> Environmentally hazardous substance, solid, n.o.s	Class or Division: 9 Miscellaneous hazardous material	Packing Group: III
EmS number:	F-A, S-F		

## 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	<u>8</u>			
State Right-to-Kn	ow			
Massachuset	ts	Not Listed		
New Jersey		Not Listed		
Pennsylvania	1	Not Listed		
California Propos	sition 65:	Not Listed		
Other Information	ı			
NFPA Rating:	_		HMIS Classification:	
Health:	2		Health:	2
Flammability:	0		Flammability:	0
Instability:	0		Physical:	0
International Inve	entories			
Canada: DSL		On DSL		
EC-No:		208-953-6		

# 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.