

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

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:

Signal word:

Hazard Statement(s):

Toxic if swallowed Harmful if inhaled May damage fertility or the unborn child Harmful to aquatic life Harmful to aquatic life with long lasting effects

TCI AMERICA

SAFETY DATA SHEET

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal]

Hazards not otherwise classified: [HNOC] Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust, fume, mist, vapors or spray. Use only outdoors or in a well-ventilated area. 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: Immediately call a poison center or doctor. Rinse mouth. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If exposed or concerned: Get medical advice or attention.

Store locked up.

Caffeine

For laboratory research purposes.

Acute Toxicity - Oral [Category 3] Acute Toxicity - Inhalation [Category 4]

Toxic to Reproduction [Category 1A] Aquatic Hazard (Acute) [Category 3] Aquatic Hazard (Long-Term) [Category 3]

Not for drug or household use.

C2042

Danger!

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.).

None.

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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 **TCI AMERICA** 

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components:	Substance Caffeine
Percent:	>98.0%(HPLC)(T)
CAS RN:	58-08-2
Molecular Weight:	194.19
Chemical Formula:	C8H10N4O2
Synonyms:	1,3,7-Trimethylxanthine

# 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:	Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. medical advice/attention.			
Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.				
Symptoms/effects:				
Acute:	No data available			
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, 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 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.			
	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

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
Hand protection:	approved under appropriate government standards and follow local and national regulations. 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 Odorless No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	238°C (460°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:	540°C (1004°F) No data available No data available
Solubility(ies): [Water] [Other solvents] Very soluble: Soluble: Slightly soluble: Very slightly soluble:	Slightly soluble (2.17g/100mL) Tetrahydrofuran(THF) Chloroform, Ethyl acetate, Pyridine Alcohols, Benzene, Acetone, Petroleum ether, Glacial acetic acid Ether		

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, Nitrogen oxides (NOx)

## **11. TOXICOLOGICAL INFORMATION**

## RTECS Number: EV6475000

Acute Toxic orl-rat LD50:		orl-hmn LDLo:192 mg/kg			
				0.0	
<b>Skin corros</b> No data avai	ion/irritation: lable				
<b>Serious eye</b> No data avai	damage/irritation:				
<b>Respiratory</b> No data avai	or skin sensitization:				
dni-hmn-hla	<b>utagenicity:</b> 1 mmol/L 00 ppm/48H (-S9)		dns-hmn-oth 1 ו	nmol/L	
Carcinogen orl-rat TDLo:	<b>icity:</b> 4200 mg/kg/10W-C				
IARC:	Group 3 (Not classifiable as carcinogenic to humans).	NTP:	No data available	OSHA:	No data available
	<b>/e toxicity:</b> 12.5 mg/kg (multigenerations) .o:6750 mg/kg (1-39W preg)		orl-wmn TDLo:8	34 mg/kg (1-42D) preg	
Target orga	n(s):	No data available			
12. ECOLO	OGICAL INFORMATION				
Factoriality					
Ecotoxicity: Fish:		No data available			
	acea:	No data available			
Algae		No data available			
	/ degradability: lative potential(BCF): soil	No data available 0.52 - 2.25			
Log F		-0.07			
Soil a	adsorption (Koc):	18 - 22			
Henry	y's Law (PaM ³/mol):	1.9 x 10 <sup>-14</sup>			
	SAL CONSIDERATIONS				
Disposal of	product:	Local rules and re and burn in a cher intended to provid with this section er Identification and I	gulations. You may be able nical incinerator equipped v e assistance but does not r nsure regulatory complianc	to dissolve or mix ma vith an afterburner and eplace these laws, not e according to the law are listed in 40 CFR I	Parts 261. The product should not
Disposal of	container:		sed product. Do not re-use		-

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.

### 14. TRANSPORT INFORMATION

<u>DOT (US)</u> UN number: UN1544	<b>Proper Shipping Name:</b> Alkaloids, solid, n.o.s	<b>Class or Division:</b> 6.1 Toxic material.	Packing Group:	
IATA_ UN number: UN1544	Proper Shipping Name: Alkaloids, solid, n.o.s	<b>Class or Division:</b> 6.1 Toxic material.	Packing Group:	
IMDG UN UN1544 numb er:	Proper Shipping Name: Alkaloids, solid, n.o.s	<b>Class or Division:</b> 6.1 Toxic material.	Packing Group: III	
EmS number:	F-A, S-A			
15. REGULATORY INFORMATION				
Toxic Substance Control Act (TSCA 8b.):				

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

<u>US Federal Regulations</u> 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	<u>1</u>			
NFPA Rating:			HMIS Classification:	
Health:	2		Health:	
Flammability:	0		Flammability:	
Instability:	0		Physical:	
International Inventories				
Canada: DSL EC-No:		On DSL 200-362-1		
LO-NO.		200-002-1		

## 16. OTHER INFORMATION

### Revision date: 07/06/2018

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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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