

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

1. IDENTIFICATION

TCI AMERICA SAFETY DATA SHEET

Product name: Product code:	1-Vinyl-2-pyrrolidone (stabilized with N,N'-Di-sec-bu V0026	ıtyl-p-phenylenediamine)
Product use: Restrictions on use:	For laboratory research purposes. Not for drug or household 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		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		
OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Oral [Category 4] Acute Toxicity - Dermal [Category 3] Acute Toxicity - Inhalation [Category 4] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 1] Carcinogenicity [Category 2] Specific Target Organ Toxicity (Single Exposure) [Catego	ry 3]
Signal word:	Danger!	
Hazard Statement(s):	Toxic in contact with skin Harmful if swallowed or if inhaled Causes skin irritation Causes serious eye damage Suspected of causing cancer May cause respiratory irritation.	

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal]

Hazards not otherwise classified: Mag

May cause polymerization.

understood. Avoid breathing mist, vapors or spray. Use only outdoors or in a well-ventilated area. 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 on skin: Wash with plenty of soap and water. Call a poison center or doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If in eyes: Rinse cautiously

Obtain special instructions before use. Do not handle until all safety precautions have been read and

comfortable for breatning. Call a poison center or doctor if you feel unwell. If in eyes: Rinse cautiously 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. Store in a well-ventilated place. Keep container tightly closed. 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.).

3. COMPOSITION/INFORMATION O	N INGREDIENTS
Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula:	Substance 1-Vinyl-2-pyrrolidone (stabilized with N,N'-Di-sec-butyl-p-phenylenediamine) >99.0%(GC) 88-12-0 111.14 C ₆ H₃NO
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: Eye contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Call a POISON CENTER or doctor/physician. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get
Ingestion:	medical advice/attention. Get medical advice/attention.Rinse mouth.
Symptoms/effects: Acute: Delayed:	Pain. Redness. May have effects on the respiratory tract. Possibly carcinogenic to humans.
Indication of any immediate medical attended Not available. Notes to physician: No data available	ention:
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, foam, water in large amounts, carbon dioxide.
Specific hazards arising from the chemical:	This substance may polimerize explosively when heated or involved in a fire. Container may explode when heated. Combat fire from a sheltered position. 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 MEASU	RES
Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. 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: Methods and materials for containment and cleaning up:	Prevent product from entering drains.
7. HANDLING AND STORAGE	
Precautions for safe handling: Conditions for safe storage, including a	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. 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 all contact!
Storage conditions:	Keep container tightly closed. Store in a refrigerator. Store locked up. Store away from incompatible materials such as oxidizing agents. Heat-sensitive
Packaging material:	Comply with laws.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION		
Exposure limits: ACGIH TLV(TWA):	0.05 ppm	
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:	Half or full facepiece 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: Eye protection: Skin and body protection:	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:	Liquid Clear Colorless - Reddish yellow No data available No data available No data available		
Melting point/freezing point:	13°C (Freezing point) (55°F)	pH:	No data available
Boiling point/range:	148°C /13.3kPa (298°F)	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	3.8
Relative density:	1.05 No data available	Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available		No. defenses flette
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point: Flammability(solid, gas):	102°C (216°F) No data available	Autoignition temperature: Flammability or explosive limits:	240°C (464°F)
		Lower:	1.4%
		Upper:	10%
Solubility(ies):		-	
[Water]	Miscible		
[Other solvents]			
Soluble:	Many organic solvents		

10. STABILITY AND REACTIVITY

 Reactivity:
 No data available

 Chemical stability:
 Polymerization may occur under the influences of heat, light or on contact with polymerization initiators such as peroxides etc.

 Possibility of hazardous reactions:
 No special reactivity has been reported.

 Conditions to avoid:
 Heat, Light

 Incompatible materials:
 Oxidizing agents, Strong acids

 Hazardous decomposition products:
 Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

RTECS Number: UY6107000

Acute Toxici ihl-rat LC50:3 skn-rbt LD50:	200 mg/m ³ /4H		orl-rat LD50:1470 mg/kg			
Skin corrosi No data avail						
Serious eye eye-rbt 100 m	damage/irritation: ng SEV					
Respiratory No data avail	or skin sensitization : able					
Germ cell m No data avail	utagenicity: able					
Carcinogeni No data avail						
IARC:	Group 3 (Not classifiable as carcinogenic to humans).	NTP:	No data available	OSHA:	No data available	
Reproductiv No data avail						
Target organ May caus	n(s): se respiratory irritation.					
12. ECOLO	GICAL INFORMATION					
Ecotoxicity:						
Fish:		No data available				
Crusta	acea:	No data available				
Algae	:	No data available				
Persistence	/ degradability:	No data available				
Bioaccumula Mobility in se	ative potential(BCF):	No data available				
Log P		0.4				
0.1	$1 \rightarrow 1 \rightarrow$	Number of the second state				

No data available

No data available

Disposal of container:

Disposal of product:

Soil adsorption (Koc):

Henry's Law (PaM 3/mol):

13. DISPOSAL CONSIDERATIONS

Other considerations:

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. 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

DOT (US) UN number: UN2810	Proper Shipping Name: Toxic, liquids, organic, n.o.s	Class or Division: 6.1 Toxic material.	Packing Group:
IATA UN number: UN2810	Proper Shipping Name: Toxic liquid, organic, n.o.s	Class or Division: 6.1 Toxic material.	Packing Group:
IMDG			

Class or Division:

6.1 Toxic material.

Packing Group:

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EmS number:

UN2810

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er:

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.

Proper Shipping Name:

Toxic liquid, organic, n.o.s

<u>US Federal Regu</u> CERCLA Hazardo		d 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		Listed		
Pennsylvania	1	Not Listed		
California Propos	ition 65:	Not Listed		
Other Information	<u>ı</u>			
NFPA Rating:			HMIS Classification:	
Health:	3		Health:	3
Flammability:	1		Flammability:	1
Instability:	0		Physical:	0
International Inve	entories			
Canada: DSL		On DSL		
EC-No:		201-800-4		

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.