

Revision number: 3 Revision date: 08/18/2015

1. IDENTIFICATION

Product name: Product code: 2-Vinylpyrazine (stabilized with TBC) V0060

For laboratory research purposes.

Not for drug or household use.

TCI AMERICA

SAFETY DATA SHEET

Emergency telephone number:

Transportation Emergencies:

+1-703-527-3887 (International) Responsible department:

Environmental Health Safety and Security

TCI America (8:00am - 5:00pm) PST

Chemical Emergencies:

+1-503-286-7624

Chemtrec 24-Hour +1-800-424-9300 (U.S.A.)

TCI America

+1-503-286-7624

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:

Acute Toxicity - Oral [Category 4] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A] Flammable Liquids [Category 3]

Signal word:

Warning!

Hazard Statement(s):

Causes serious eye irritation Causes skin irritation Flammable liquid and vapor Harmful if swallowed

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection. Keep away from heat, sparks, open flames or other hot surfaces. - No smoking. Keep container tightly closed. Ground or bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting, and equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves, eye protection and face protection.

If swallowed: Immediately call a poison center or doctor. Rinse mouth. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If in eyes: 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 or attention. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish. Store in a well-ventilated place. Keep cool. Dispose of contents and container in accordance with US EPA guidelines for the classification and

determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

Hazards not otherwise classified: [HNOC] May cause polimerization.

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2. HAZARD(S) IDENTIFICATION

3. COMPOSITION/INFORMATION	ON INGREDIENTS
Substance/Mixture:	Substance
Components:	2-Vinylpyrazine (stabilized with TBC)
Percent:	>98.0%(GC)
CAS Number:	4177-16-6 106.13
Molecular Weight:	
Chemical Formula: Stabilizers:	C ₆ H ₆ N₂ 4-tert-butylcatechol
Stabilizers.	4-left-bulyicalection
4. FIRST-AID MEASURES	
Inhalation:	Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Skin contact:	Call a poison center or doctor if you feel unwell. Remove and wash contaminated clothing before re-use. Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Eye contact:	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with material may irritate or burn eyes. Call emergency medical service. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Ingestion:	Harmful if swallowed. Do not induce vomiting with out medical advice. Call a physician or Poison Control Center immediately. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Symptoms/effects:	
Acute: Delayed:	Redness. No data available
Immediate medical attention:	WARNING: It might be hazardous to the person providing aid to give mouth-to-mouth respiration, because the inhaled material is harmful. If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, CO_2 , water spray, or alcohol-resistant foam. Consult with local fire authorities before attempting large scale fire fighting operations.
Specific hazards arising from the chen	
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Nitrogen oxides Closed containers may explode from heat of a fire.
Special precautions for fire-fighters: Use water spray or fog; do not use straigh have a very low flash point: Use of water explosion hazard. Containers may explod Special protective equipment for fire-fi Wear positive pressure self-contained bre	nt streams. Dike fire-control water for later disposal; do not scatter the material. CAUTION: All these products spray when fighting fire may be inefficient. Do not use straight streams. Runoff to sewer may create fire or le when heated. Move containers from fire area if you can do it without risk.

6. ACCIDENTAL RELEASE MEASURES

6. ACCIDENTAL RELEASE MEAS	SURES
Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Use spark- proof tools and explosion-proof equipment. Remove all sources of ignition. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Personal protective equipment:	Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).
Emergency procedures:	Isolate area until gas has dispersed. In case of a spill and/or a leak, always shut off any sources of ignition ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). All equipment used when handling the product must be grounded. Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material.

Environmental precautions:

Keep away from living quarters. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

7. HANDLING AND STORAGE	
Precautions for safe handling:	Do NOT breath gas, fumes, vapor, or spray. Do not ingest. Avoid contact with skin and eyes. Keep away from heat and sources of ignition. Use explosion-proof equipment. Use only non-sparking hand tool when handling this product. Ground all equipment containing material. Take measures to prevent build up of electrostatic charge. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition.
Conditions for safe storage:	Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition. Store and use away from heat, sparks, open flame, or any other ignition source. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods. Store under inert gas (e.g. Argon). Store in a freezer.
Storage incompatibilities:	Bases, Combustible substances, Store away from oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

No data available

Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment

Respiratory protection:	Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.
Hand protection:	Wear protective gloves.
Eye protection:	Splash goggles.
Skin and body protection:	Lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Liquid Clear Yellow - Brown No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	No data available No data available No data available 1.05 No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:	No data available 30kPa/20°C 3.6 No data available
Partition coefficient: n-octanol/water (log Pow)	No data available	Evaporation rate: (Butyl Acetate = 1)	No data available

	CAL PROPERTIES 35°C (95°F)	Autoignition tempe	rature: No data a	available
Flash point: Flammability (solid, gas):	No data available	Flammability or exp		
		Lower:	No data available	
		Upper:	No data available	
Solubility(ies):				
Water: Slightly solub	ble			
Slightly soluble: Me	ethanol			
10. STABILITY AND REACT				
IO. STADIEN I AND REACT				
Reactivity:	Not Available.			
Chemical Stability:	Air sensitive. Heat se			
Possibility of Hazardous React		nmable/explosive vapor-air miz	dure.	
Conditions to avoid:		ire to air. Heat sensitive.		
ncompatible materials:	Oxidizing agents			
Hazardous Decomposition Pro	oducts: No data available			
11. TOXICOLOGICAL INFO	RMATION			
Acute Toxicity:				
No data available				
Skin corrosion/irritation:				
No data available				
Serious eye damage/irritation:				
No data available				
Respiratory or skin sensitizatio No data available	on:			
Germ cell mutagenicity:				
No data available				
Carcinogenicity:				
No data available				
IARC: No data available	e NTP: N	No data available	OSHA: No da	ta available
Reproductive toxicity:				
Reproductive toxicity: No data available	Inhalation, Eye conta	uct, Ingestion, Skin contact.		
Reproductive toxicity: No data available Routes of Exposure: Symptoms related to exposure	e:			
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z-vinyipyrazine (stai	bilized with TBC)	I CI AI	WERICA		Fage 5 01 6	
12. ECOLOGICAL	INFORMATION					
lenry's Law: constant (PaM³/mol)		No data available	3			
13 DISPOSAL CO	NSIDERATIONS					
rules an chemica assistar regulato Waste a water w Disposal of container: Dispose		rules and regulat chemical incinera assistance but do regulatory compli Waste are listed water ways, or th	ecycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local ules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a hemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide sistance but does not replace these laws, nor does compliance in accordance with this section ensure egulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous /aste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, rater ways, or the soil. bispose of as unused product. Do not re-use empty containers. biserve all federal, state and local regulations when disposing of the substance.			
DOT (US) JN number: JN1993	Proper Shipping Na Flammable liquids, n		Class or Division: 3 Flammable liquid	Packing Group: III		
ATA JN number: JN1993	Proper Shipping Na Flammable liquid, n.o		Class or Division: 3 Flammable liquid	Packing Group: III		
MDG JN number: JN1993	Proper Shipping Na Flammable liquid, n.o		Class or Division: 3 Flammable liquid	Packing Group: III		
EmS number:		F-E, S-E				
15. REGULATOR	(INFORMATION					
This product is NOT c products not on the in (i) These products ar 40 CFR 720.0 et sec.	ventory list: e supplied solely for u	stances Control Act	development by or under the s	ng notices are required by 40 CFR 720.3 upervision of a technically qualified indivi or becomes available will be supplied on	dual as defined in	
JS Federal Regulation						
CERCLA Hazardous SARA 313: SARA 302:	substance and Repo	ortable Quantity: Not Listed Not Listed				
State Regulations						
tate Right-to-Know						
Massachuset New Jersey Pennsylvania California Propositio	l	Not Listed Not Listed Not Listed Not Listed				
Other Information						

NFPA Rating:

Health:	3	
Flammability:	3	
Instability:	0	

International Inventories

WHMIS hazard class:

EC-No:

D2A: Materials causing other toxic effects. (Very Toxic) D2B: Materials causing other toxic effects. (Toxic) 224-045-2

HMIS Classification: Health:

Flammability: Physical: 3 3

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16. OTHER INFORMATION

Revision date: 08/18/2015 Revision number: 3

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 gogles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.