

synerzine Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/15/2015 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Pyrazine, 2,3-dimethyl-
CAS-No.	: 5910-89-4
Product code	: (US) N623
Formula	: C6H8N2
Synonyms	: 2,3-Dimethylpyrazine
1.2. Recommended use and restrict	ions on use
No additional information available	
1.3. Supplier	
Synerzine 5340 Hwy 42 S Ellenwood, Georgia 30294 - USA T 404-524-6744 - F 404-577-1651 <u>info@synerzine.com</u> - <u>www.synerzine.com</u>	
1.4. Emergency telephone number	
Emergency number	: Infotrac 1-800-535-5053 (Contract# 102471) Dial +1-352-323-3500 when outside the US
SECTION 2: Hazard(s) identificati	on
2.1. Classification of the substance	or mixture

## **GHS-US** classification

Flammable liquids Category 3	H226	Flammable liquid and vapour
Acute toxicity (oral)	H302	Harmful if swallowed
Category 4		
Skin corrosion/irritation	H315	Causes skin irritation
Category 2		
Serious eye damage/eye	H318	Causes serious eye damage
irritation Category 1		
Specific target organ toxicity	H335	May cause respiratory irritation
(single exposure) Category 3		
Serious eye damage/eye irritation Category 1 Specific target organ toxicity		, ,

Full text of H statements : see section 16

#### **GHS-US** labeling

Hazard pictograms (GHS-US)

Signal word (GHS-US) : Danger : H226 - Flammable liquid and vapour Hazard statements (GHS-US) H302 - Harmful if swallowed H315 - Causes skin irritation H318 - Causes serious eye damage H335 - May cause respiratory irritation Precautionary statements (GHS-US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. heat, hot surfaces, sparks, open flames P233 - Keep container tightly closed. P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P261 - Avoid breathing dust, fume, gas, mist, spray, vapors. P264 - Wash hands thoroughly after handling. 06/22/2018 EN (English US)

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	P270 - Do not eat, drink or smoke when using this product.
	P271 - Use only outdoors or in a well-ventilated area.
	P280 - Wear eye protection, face protection, protective clothing, protective gloves.
	P301+P312 - If swallowed: Call a doctor, a POISON CENTER if you feel unwell
	P302+P352 - If on skin: Wash with plenty of water
	P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
	P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
	P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing
	P310 - Immediately call a doctor, a POISON CENTER
	P312 - Call a doctor, a POISON CENTER if you feel unwell
	P321 - Specific treatment (see first aid measures on this label)
	P330 - Rinse mouth.
	P332+P313 - If skin irritation occurs: Get medical advice/attention.
	P362 - Take off contaminated clothing and wash before reuse.
	P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry sand to extinguish.
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
	P403+P235 - Store in a well-ventilated place. Keep cool.
	P405 - Store locked up.
	P501 - Dispose of contents/container to an approved waste disposal plant
Other hazards which do n	not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

## Not applicable

2.3.

## SECTION 3: Composition/Information on ingredients

3.1. Substances			
Name	Product identifier	%	GHS-US classification
Pyrazine, 2,3-dimethyl- (Main constituent)	(CAS-No.) 5910-89-4	99 - 100	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures Not applicable

SECTION 4: First-aid measures	
4.1. Description of first aid measu	res
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Wash with plenty of soap and water. Get medical advice/attention. Specific treatment (see first aid measures on this label).
First-aid measures after eye contact	: 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/physician.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms an	d effects (acute and delayed)
Potential Adverse human health effects and symptoms	: Harmful if swallowed. Based on available data, the classification criteria are not met.
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

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4.3. Immediate medical attention	and special treatment, if necessary
No additional information available	
SECTION 5: Fire-fighting measu	res
5.1. Suitable (and unsuitable) ext	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
	-
5.2. Specific hazards arising from Fire hazard	: Flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
•	and precautions for fire-fighters
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical
	fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release r	neasures
6.1. Personal precautions, protec	tive equipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
	ify authorities if liquid enters sewers or public waters.
6.3. Methods and material for cor	ntainment and cleaning up
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
6.4. Reference to other sections	
See Heading 8. Exposure controls and personal	protection.
SECTION 7: Handling and storag	e la
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Take precautionary measures against static discharge. Use only non- sparking tools. Avoid breathing dust, fume, gas, mist, spray, vapors. Use only outdoors or in a well- ventilated area.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
7.2. Conditions for safe storage, i	ncluding any incompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof chemical equipment.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container tightly closed.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
Storage area	: Refrigerator.

SECTION 8: Exposure controls/personal protection			
8.1.	Control parameters		
No addit	ional information available		

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## 8.2. Appropriate engineering controls

No additional information available

## 8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

### Hand protection:

Wear protective gloves.

#### Eye protection:

Chemical goggles or safety glasses

### Skin and body protection:

Wear suitable protective clothing

## **Respiratory protection:**

Wear appropriate mask

#### Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical	and chemical properties	
Physical state	: Liquid	
Color	: A colorless to pale yellow liquid	
Odor	: Nutty, green, roasted, cocoa, coffee	
Odor threshold	: No data available	
pH	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: 155 - 157 °C @ 1 bar	
Flash point	: 128 °F closed cup	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Flammable liquid and vapour.	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Specific gravity / density	: 0.995 - 1.05 g/ml	
Molecular mass	: 108.15 g/mol	
Solubility	: soluble in alcohols. Slightly soluble in water.	
Log Pow	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

## 9.2. Other information

: 1.501 - 1.51

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## SECTION 10: Stability and reactivity

# 10.1. Reactivity No additional information available 10.2. Chemical stability Flammable liquid and vapour. May form flammable/explosive vapor-air mixture. 10.3. Possibility of hazardous reactions Not established. 10.4. Conditions to avoid Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks. 10.5. Incompatible materials Strong acids. Strong bases. 10.6. Hazardous decomposition products fume. Carbon monoxide. Carbon dioxide. May release flammable gases. SECTION 11: Toxicological information 11.1. Information on toxicological effects : Not classified Acute toxicity

Pyrazine, 2,3-dimethyl- (5910-89-4)	
LD50 oral rat	613 mg/kg
ATE US (oral)	613 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity – single exposure	: May cause respiratory irritation.
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Harmful if swallowed. Based on available data, the classification criteria are not met.
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

#### SECTION 12: Ecological information 12.1. Toxicity No additional information available 12.2. Persistence and degradability Pyrazine, 2,3-dimethyl- (5910-89-4) Persistence and degradability Not established. 12.3. Bioaccumulative potential Pyrazine, 2,3-dimethyl- (5910-89-4) Not established. Bioaccumulative potential 12.4. Mobility in soil No additional information available 06/22/2018 EN (English US) 5/8

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### 12.5. Other adverse effects

Other information	: Avoid release to the environment.	
SECTION 13: Disposal considerations		
13.1. Disposal methods		
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to manufactur's suggestion for disposal.	
Additional information	: Handle empty containers with care because residual vapors are flammable.	
Ecology - waste materials	: Avoid release to the environment.	
SECTION 14: Transport information		

## **Department of Transportation (DOT)**

In accordance with DOT

Transport document description	: UN1993, 3, III
UN-No.(DOT)	: UN1993
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 3 - Flammable liquid

: 203

: 242

DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols

DOT Symbols	:	G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	:	<ul> <li>B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.</li> <li>B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T4 - 2.65 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	:	150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	220 L
DOT Vessel Stowage Location	:	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

Other information

: No supplementary information available.

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### **Transportation of Dangerous Goods**

#### Transport by sea

Transport document description (IMDG)	: UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III
UN-No. (IMDG)	: 1993
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Limited quantities (IMDG)	: 5 L

### Air transport

Transport document description (IATA)	: UN 1993 Flammable liquid, n.o.s., 3, III
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger

SECTION 15: Regulatory information		
15.1. US Federal regulations		
Pyrazine, 2,3-dimethyl- (5910-89-4)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

### 15.2. International regulations

#### **CANADA**

Pyrazine, 2,3-dimethyl- (5910-89-4)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

Pyrazine, 2,3-dimethyl- (5910-89-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### National regulations

### Pyrazine, 2,3-dimethyl- (5910-89-4)

Listed on the AICS (Australian Inventory of Chemical Substances)

- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on NZIoC (New Zealand Inventory of Chemicals)

- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

## 15.3. US State regulations

No additional information available

## SECTION 16: Other information

Other information

: None.

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Full	text of H-phrases:

Full	text of H-phrases:	
	H226	Flammable liquid and vapour
	H302	Harmful if swallowed
	H315	Causes skin irritation
	H318	Causes serious eye damage
	H335	May cause respiratory irritation
NFPA	health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA	fire hazard	: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
NFPA	reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Haza	ard Rating	
Heal	lth	: 0 Minimal Hazard - No significant risk to health
Flan	ımability	: 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Phys	sical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Pers	onal protection	: G
		G - Safety glasses, Gloves, Vapor respirator

Synerzine US

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements on ly. It should not therefore be construed as guaranteeing any specific property of the product