

synerzine Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/19/2015 Version: 1.0

SECTION 1: Identification	on
1.1. Identification	
Product form	: Substance
Substance name	: Pyrazine, 2-methoxy-3-(2-methylpropyl)-
CAS-No.	: 24683-00-9
Product code	: (US) 9230
Formula	: C9H14N2O
Synonyms	: 2-Methoxy-3-(2-methylpropyl)pyrazine / 2-Methoxy-3-isobutyl pyrazine / 2-Isobutyl-3- methoxypyrazine
1.2. Recommended use a	and restrictions on use
No additional information availabl	e
1.3. Supplier	
Synerzine	

5340 Hwy 42 S Ellenwood, Georgia 30294 - USA T 404-524-6744 - F 404-577-1651 info@synerzine.com - www.synerzine.com

1.4. Emergency telephone number

Emergency number

2.1

: Infotrac 1-800-535-5053 (Contract# 102471) Dial +1-352-323-3500 when outside the US

## SECTION 2: Hazard(s) identification Classification of the substance or mixtu

	i the substance of mixt	
GHS-US classification		
Flammable liquids Category 4	H227	Combustible liquid
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2A	H319	Causes serious eye irritation
Specific target organ toxicity (single exposure) Category 3	H335	May cause respiratory irritation
Full text of H statements : see	section 16	

2.2. GHS Label elements, inclue GHS-US labeling	ding precautionary statements
Hazard pictograms (GHS-US)	
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H227 - Combustible liquid H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	<ul> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. heat, hot surfaces, open flames, sparks</li> <li>P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.</li> <li>P264 - Wash hands thoroughly after handling.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P280 - Wear eye protection, face protection, protective clothing, protective gloves.</li> <li>P302+P352 - If on skin: Wash with plenty of water</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P312 - Call a doctor, a POISON CENTER if you feel unwell</li> </ul>
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	<ul> <li>P321 - Specific treatment (see P332+P313 - If skin irritatio</li> <li>P337+P313 - If eye irritation</li> <li>P362 - Take off contaminate</li> <li>P370+P378 - In case of fire:</li> <li>extinguish.</li> <li>P403+P233 - Store in a well-P403+P235 - Store in a well-P405 - Store locked up.</li> <li>P501 - Dispose of contents/or</li> </ul>	n occurs: Get medical adv n persists: Get medical ad d clothing and wash befo Use alcohol resistant foar -ventilated place. Keep co -ventilated place. Keep co	vice/attenti vice/attent re reuse. n, carbon d ontainer tigi ool.	ion. lioxide (CO2), dry sand to htly closed.
2.3. Other hazards which do not res	ult in classification			
No additional information available				
2.4. Unknown acute toxicity (GHS U	S)			
Not applicable				
SECTION 3: Composition/Informa	tion on ingredients			
3.1. Substances		1	_	
Name		Product identifier	%	GHS-US classification
Pyrazine, 2-methoxy-3-(2-methylpropyl)- (Main constituent)		(CAS-No.) 24683-00-9	100	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 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 measure	s			
First-aid measures general	: Never give anything by mou (show the label where possi		son. If you f	eel unwell, seek medical advice
First-aid measures general First-aid measures after inhalation		ble).	-	eel unwell, seek medical advice
-	<ul><li>(show the label where possi</li><li>: Allow victim to breathe fresh</li></ul>	ble). h air. Allow the victim to	rest.	eel unwell, seek medical advice ild soap and water, followed by
First-aid measures after inhalation	<ul> <li>(show the label where possi</li> <li>Allow victim to breathe fresh</li> <li>Remove affected clothing an warm water rinse.</li> <li>Rinse immediately with pler persists.</li> </ul>	ble). h air. Allow the victim to d wash all exposed skin a nty of water. Obtain medi	rest. area with m cal attentio	ild soap and water, followed by n if pain, blinking or redness
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SECTION 6: Accidental release	e measures
6.1. Personal precautions, prot	ective 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	
Prevent entry to sewers and public waters. N	lotify authorities if liquid enters sewers or public waters.
6.3. Methods and material for c	ontainment 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 section:	5
See Heading 8. Exposure controls and perso	nal protection.
SECTION 7: Handling and stor	age
7.1. Precautions for safe handli	ng
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable. Keep away from heat/sparks/open flame/hot surfaces No smoking.
Precautions for safe handling	: No open flames. No smoking. 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.
7.2. Conditions for safe storage	, including any incompatibilities
Fechnical measures	: Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	: Keep in fireproof place. Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container closed when not in use.
incompatible products	: Strong bases. Strong acids.
ncompatible materials	: Heat sources. Sources of ignition. Direct sunlight.
SECTION 8: Exposure controls	

JECHON	υ.	Exposure	contro13/p	

8.1. Control parameters

No additional information available

## 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

# **Respiratory protection:**

Wear appropriate mask

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### Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemica	al properties
9.1. Information on basic physical	
Physical state	: Liquid
Appearance	: Colorless to slight amber.
Color	: Colorless amber
Odor	: green bell pepper mustard
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 125 °C 10 mmHg
Flash point	: 176 °F closed cup
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Combustible liquid. Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 0.99 - 0.995 g/ml 20/20
Molecular mass	: 166.22 g/mol
Solubility	: 1 part or more of 70% alcohol.
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

No additional information available

# SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Combustible liquid. May form flammable/explosive vapor-air mixture. Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Open flame. Overheating. Heat. Sparks. Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

## 10.6. Hazardous decomposition products

May release flammable gases. fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

11.1. Information on toxicological effects

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Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
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	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 12: Ecological informatio	n
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
Pyrazine, 2-methoxy-3-(2-methylpropyl)- (246	583-00-9)
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
Pyrazine, 2-methoxy-3-(2-methylpropyl)- (246	583-00-9)
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
No additional information available	

# 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 of contents/container to manufactur's suggestion for disposal. Dispose in a safe manner in accordance with local/national regulations.	
Additional information	: Handle empty containers with care because residual vapors are flammable.	
Ecology - waste materials	: Avoid release to the environment.	

# Department of Transportation (DOT)

SECTION 14: Transport information

In accordance with DOT	
Transport document description	: NA1993 Combustible liquid, n.o.s. (Pyrazine, 2-methoxy-3-(2-methylpropyl)-), 3, III
UN-No.(DOT)	: NA1993
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.
	Pyrazine, 2-methoxy-3-(2-methylpropyl)-
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203

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DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	<ul> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 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>T1 - 1.5 178.274(d)(2) Normal 178.275(d)(2)</li> <li>T4 - 2.65 178.274(d)(2) Normal 178.275(d)(3)</li> <li>TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.</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.
Transportation of Dangerous Goods	. No supplementary mormation available.

#### Transport by sea

#### Air transport

SECTION 15: Regulatory information			
15.1. US Federal regulations			
Pyrazine, 2-methoxy-3-(2-methylpropyl)- (24683-00-9)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			

# 15.2. International regulations

#### CANADA

Pyrazine, 2-methoxy-3-(2-methylpropyl)- (24683-00-9)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

Pyrazine, 2-methoxy-3-(2-methylpropyl)- (24683-00-9) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### National regulations

Pyrazine, 2-methoxy-3-(2-methylpropyl)- (24683-00-9)

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 the Korean ECL (Existing Chemicals List)

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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SEC	CTION 16: Other informa	tion
Data	sources	<ul> <li>REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.</li> </ul>
Othe	er information	: None.
Full	text of H-phrases:	
	H227	Combustible liquid
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
NFPA health hazard		: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard		<ul> <li>2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.</li> </ul>
NFPA reactivity		: 0 - Material that in themselves are normally stable, even under fire conditions.
Haza	ard Rating	
Health		: 0 Minimal Hazard - No significant risk to health
Flammability		: 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)
Physical		: 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 only. It should not therefore be construed as guaranteeing any specific property of the product