



# **SAFETY DATA SHEET**

Preparation Date: 12/18/2014 Revision Date: Not Applicable Revision Number: Not Applicable

**Product identifier** 

Product code: D2984

**Product Name:** 2,5-Dimethylpyrazine

Other means of identification

**Synonyms:** No information available

CAS #: 123-32-0
RTECS # UQ2800000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use:
Uses advised against
No information available.
No information available

**Supplier:** Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Flammable liquids	Category 4

#### Label elements

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#### Warning

#### Hazard statements

Harmful if swallowed Causes skin irritation Causes serious eye irritation Combustible liquid



#### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

Not available

### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

# **Precautionary Statements - Response**

Specific treatment (see .? on this label)

In case of fire: Use CO2, dry chemical, or foam to extinguish.

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/attention.
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
	123-32-0	100	*
2,5-Dimethylpyrazine - 123-32-0			

# 4. FIRST AID MEASURES

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#### 4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth

resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device. Immediate medical attention is required.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms Causes eye irritation. Eye contact may result in redness or pain. Causes skin irritation. Skin

contact may result in redness, pain, inflammation, itching, scaling. Harmful if swallowed.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

**Protection of first-aiders** 

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray. Alcohol-

resistant foam.

**Unsuitable Extinguishing Media:**Do not use a solid (straight) water stream as it may scatter

and spread fire.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon oxides, Nitrogen oxides

Specific hazards: Combustible material

May be ignited by heat, sparks or flames

Container explosion may occur under fire conditions or when

heated

When heated, vapors may form explosive mixtures with air:

indoors, outdoors and sewers explosion hazards

**Special Protective Actions for Firefighters** 

Specific Methods: Water mist may be used to cool closed containers. For

larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out. Dike fire-control water for later disposal; do not scatter the

material.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

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#### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact

with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. All equipment used when handling the product must be grounded. Use spark-proof

tools and explosion-proof equipment.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

#### Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite,

dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill

for later disposal.

**Methods for cleaning up**Use appropriate tools to put the spilled material in a suitable chemical waste disposal

container. Use only non-sparking tools. Clean contaminated surface thoroughly.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

#### Safe Handling Advice:

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

# **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Hygroscopic. Store under inert gas.

### **Incompatible Materials:**

Strong acids. Strong oxidizing agents.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Control parameters**

## **National occupational exposure limits**

#### **United States**

Office Otates	Office Otates					
Components	OSHA	NIOSH	ACGIH	AIHA WHEEL		
	None	None	None	None		
2,5-Dimethylpyrazine - 123-32-0						

#### Canada

Components	Alberta	British Columbia	Ontario	Quebec
	None	None	None	None
2,5-Dimethylpyrazine - 123-32-0				

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#### **Australia and Mexico**

Components	Australia	Mexico
2,5-Dimethylpyrazine	None	None
123-32-0		

#### Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Provide exhaust ventilation or

other engineering controls to keep the airborne

concentrations of vapors and mist below their respective

threshold limit value.

# Individual protection measures, such as personal protective equipment

**Personal Protective Equipment** 

Product code: D2984

Eye protection: Goggles. Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and Hygiene measures:

immediately after handling the product. When using, do not eat, drink or smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Colorless. Yellow. Liquid Liquid.

Odor: Taste Molecular/Formula weight:

108.14 No information available No information available

Formula: Flash point (°C): Flammability: C6H8N2 No information available No data available

Flashpoint (°C/°F): Flash Point Tested according to: **Lower Explosion Limit (%):** 

64°C/147°F Not available No information available

**Upper Explosion Limit (%):** Autoignition Temperature (°C/°F):

No information available No information available No information available

Melting point/range(°C/°F): Boiling point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 155°C/311°F No information available

Vapor pressure @ 20°C (kPa): **Bulk density:** Specific gravity:

No information available No information available No information available

**Evaporation rate:** Vapor density: Density (g/cm3):

No information available No information available 0.99

VOC content (q/L): Odor threshold (ppm): Partition coefficient

No information available No information available (n-octanol/water):

No information available

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Solubility: Viscosity: Miscibility: No information available No information available

Soluble in Ethanol Soluble in Ether Very soluble in water

**Product name:** 2,5-Dimethylpyrazine

### 10. STABILITY AND REACTIVITY

Reactivity

Reactive with strong acids
Reactive with oxidizing agents

**Chemical stability** 

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: In use, may form flammable/explosive vapor-air mixture

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials. Exposure to moisture.

**Incompatible Materials:** Strong acids. Strong oxidizing agents.

Hazardous decomposition products: Carbon oxides. Nitrogen oxides (NOx).

**Other Information** 

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

# Principal Routes of Exposure:

Eyes. Ingestion. Inhalation. Skin.

### **Acute Toxicity**

## Component Information

2,5-Dimethylpyrazine - 123-32-0

**LD50/oral/rat** = 1020 mg/kg

LD50/oral/mouse = No information available

**LD50/dermal/rat** = No information available

LD50/dermal/rabbit = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = 8 mg/kg, intracerebral, mouse, TDLo;

1350 mg/kg, intraperitoneal, mouse, LD50;

50 mg/kg, intraperitoneal, mouse, TDLo;

100 mg/kg, intraperitoneal, mouse, TDLo

#### **Product Information**

LD50/oral/rat =

VALUE- Acute Tox Oral = 1020mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

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LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

**Symptoms** 

Skin Contact: May cause skin irritation

**Eye Contact:** May cause eye irritation

InhalationIrritating to respiratory systemIngestionNo information available

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available

Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
2.5-Dimethylpyrazine	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

**Specific Target Organ Toxicity** 

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available
No information available

### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

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### 12. ECOLOGICAL INFORMATION

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

# 13. DISPOSAL CONSIDERATIONS

# **Disposal Methods**

### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

	Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
-	2,5-Dimethylpyrazine	None	None	None	None

# 14. TRANSPORT INFORMATION

DOT

**UN-No:** Not Regulated

Proper Shipping Name: No information available Hazard Class: No information available Subsidiary Risk: No information available

Packing Group: None

**ERG No:** No information available

Marine Pollutant No data available DOT RQ (lbs): No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

ADR

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

**IMO / IMDG** 

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### 14. TRANSPORT INFORMATION

**UN-No:** Not Regulated

**Proper Shipping Name:** No information available **Hazard Class:** No information available Subsidiary Risk: No information available **Packing Group:** No information available **Description:** No information available **IMDG Page:** No information available **Marine Pollutant** No information available MFAG: No information available **Maximum Quantity:** No information available

RID

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Classification Code:
Description:
No information available
No information available
No information available
No information available

**ICAO** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

**IATA** 

**UN-No:** Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

#### 15. REGULATORY INFORMATION

### **International Inventories**

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
2,5-Dimethylpyrazine	Present	Present KE- 11841	Present	Present (5)- 950	Present	Present	Present 204-618-3

### **U.S. Regulations**

2,5-Dimethylpyrazine

FDA - 21 CFR - Total Food Additives Present

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

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Components	Carcinogen	Developmental Toxicity	Male Reproductive	Female Reproductive
			Toxicity	Toxicity:
2,5-Dimethylpyrazine	Not Listed	Not Listed	Not Listed	Not Listed

# **CERCLA/SARA**

Components	<b>CERCLA - Hazardous</b>	Section 302 Extremely	Section 302 Extremely	Section 313 -	Section 313 - Reporting
	Substances and their	Hazardous	Hazardous	Chemical Category	de minimis
	Reportable Quantities	Substances and TPQs	Substances and RQs		
2,5-Dimethylpyrazine	None	None	None	None	None

### U.S. TSCA

	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
2,5-Dimethylpyrazine	Not Applicable	Not Applicable

### Canada

#### WHMIS hazard class:

B3 Combustible liquid D2A Very toxic materials D2B Toxic materials

# **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

# Inventory

Components	Canada (DSL)	Canada (NDSL)
2,5-Dimethylpyrazine	Present	Not Listed

Components	OLI A Conculie i Toxio Cubstanecs	CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting
2,5-Dimethylpyrazine	Not listed	Not listed

#### **EU Classification**

# R-phrase(s)

not determined (not applicable)

# S -phrase(s)

none

Components	Classification	Concentration Limits:	Safety Phrases
2,5-Dimethylpyrazine		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

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Indication	of	dan	ger
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None.

### 16. OTHER INFORMATION

Preparation Date: 12/18/2014
Revision Date: Not Applicable
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet** 

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