

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product Name	<b>2,3-Diethylpyrazine 5% in EtOH, Natural</b>
Product Number	<b>0313605</b>
CAS-No.	15707-24-1/64-17-5

### 1.2 Product Recommended Use

**Flavorings**

### 1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992- USA
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Telephone	845-496-6065
Fax	845-496-6248

### 1.4 Emergency Telephone Number

1-800-535-5053  
International - 1-352-323-3500 collect

## Section 2: HAZARD(s) IDENTIFICATION

### 2.1 Classification of substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)	Flammable liquids (Category 2) Causes skin irritation. Causes serious eye irritation. Specific target organ toxicity-Single exposure (Category 4), Respiratory system
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### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

**Danger**

Hazard Statement(s)

H225 Highly flammable liquid and vapour  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation

Precautionary Statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P280	Where protective gloves/protective clothing/eye protection/face protection
P303+P361+P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.
P403+P233	Store in a well ventilated area. Keep container tightly closed.
P501	Dispose of contents/container to an approved waste disposal plant.

2.3 HNOC (Hazards not otherwise classified or not covered by GHS) None

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substances

Synonyms	2,3-Diethyl-1,4-diazine
Formula	C <sub>8</sub> H <sub>12</sub> N <sub>2</sub>
Molecular Weight	136.19 g/mol
CAS-No	15707-24-1/64-17-5
EC-No.	239-800-1

### Hazardous Components

Component	Classification	Concentration
2,3-Diethylpyrazine	Skin irritation (2), H315; Eye Irrit. 2A; H319; Resp Irrit. STOT SE 3; H335	~ 5%
Ethanol	Highly Flammable liquid (2), H225	~ 95%

## Section 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Inhalation	Provide fresh air; keep at rest and at a comfortable position to breathe. Consult a physician.
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water. Consult a physician.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 minutes as a precaution. Consult a physician.
Ingestion	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Clothing contamination: Remove contaminated clothing and wash before reuse.

**4.2 Most important symptoms and effects both acute and delayed** See section 2.2 and or section 11

**4.3 Indication of any immediate medical attention and special treatment needed.** No data available

## Section 5: FIREFIGHTING MEASURES

- 5.1 Extinguishing Media**  
Suitable Extinguishing Media Use water spray, alcohol resistant foam, dry chemical or carbon dioxide
- 5.2 Special hazards arising from the substance or mixture** Carbon oxides, Nitrogen Oxides (NOx)
- 5.3 Advice for fire fighters** Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes under fire conditions.
- 5.4 Further information** Use water spray to cool unopened containers.

## Section 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** Use personal protective equipment. Avoid breathing vapors. Mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- 6.2 Environment precautions** Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system. Discharge into the environment must be avoided.
- 6.3 Methods and materials for containment and clean up** Contain spillage. Wet Sweep up with broom and place in a suitable, closed container for disposal.
- 6.4 Specific end use(s)** Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

## Section 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition-No smoking. Take measures to prevent the buildup of electrostatic charge.
- 7.2 Conditions for Safe storage** Keep container tightly closed in a dry and well-ventilated place. Containers which have been opened must be carefully resealed and kept upright to prevent leakage.
- 7.3 Specific End use(s)** Flavorings

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

Components with workplace control parameters:

Component	CAS-No.	Value	Control Parameters	Basis
Ethanol	64-17-5	TWA	1,000 ppm	USA, ACGIH Threshold Limit Value (TLV)
		Remarks: Upper Respiratory Tract irritation Confirmed animal carcinogen with unknown relevance to humans		
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	USA-Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants

## 8.2 Exposure Controls

Appropriate Engineering Controls      Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.

### Personal protective equipment

**These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situations of anticipated use by our customers. They should not be construed as offering an approval or any specific use scenario.**

Eye/face protection      Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection      Wear chemically resistant Nitrile rubber gloves. 0.11 mm. Use proper glove removal techniques (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.

Body protection      Complete suit protecting against chemicals should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier

Respiratory protection      Where risk assessment shows air-purifying respirators are appropriate, use a full face respirator with multi -purpose combination (U) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full faced supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (U) or CEN (EU).

Control of environmental exposure      Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- a Appearance      Colorless to light yellow liquid
- b Odor      Nutty, cocoa-like

c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	No data available
f	Boiling Point	~80°C
g	Flash Point	~18°C closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	No data available
k	Vapor pressure	No data available
l	Vapor density	No data available
m	Relative density @25°C	0.795-0.810
n	Solubility	Soluble in water, organic solvents and oils
o	Partition coefficient: n-octanol/water	No data available
p	Auto-ignition Temp.	No data available
q	Decomposition Temp,	No data available
r	Viscosity	No data available
s	Explosive properties	No data available
t	Oxidizing properties	No data available
<b>9.2</b>	<b>Other Safety Information</b>	No data available

## Section 10: STABILITY AND REACTIVITY

<b>10.1</b>	<b>Reactivity</b>	No data available
<b>10.2</b>	<b>Chemical Stability</b>	Stable under recommended storage conditions
<b>10.3</b>	<b>Possibility of Hazardous reactions</b>	Vapours may form explosive mixture with air.
<b>10.4</b>	<b>Conditions to avoid</b>	Heat, flames and sparks
<b>10.5</b>	<b>Incompatible materials</b>	Strong oxidizing agents, strong acids
<b>10.6</b>	<b>Hazardous decomposition products</b>	No data available

10.7 Further Information No data available

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity

LD50-Oral- Rat 613 mg/kg

LC50-Inhalation No data available

LD50-Dermal > 5,000 mg/kg

Skin corrosion/irritation Mouse

Serious eye damage/eye irritation No data available

Respiratory or skin sensitization No data available

Germ Cell mutagenicity No data available

#### Carcinogenicity

IARC No component of this product, present levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP No component of this product, present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity No data available

Teratogenicity No data available

Specific target organ toxicity-single exposure (GHS) May cause respiratory irritation

Specific target organ toxicity-repeated exposures (GHS) No data available

Aspiration Hazards No data available

#### Potential Health effects

Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological

properties have not been thoroughly investigated

Synergistic effects No data available

RTECS: No data available

## Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity	No data available
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required / not conducted
12.6 Other adverse effects	No data available

## Section 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods	
Product:	According to local regulations
Packaging	According to local regulations

## Section 14: TRANSPORT INFORMATION

<b>DOT (US)</b>	UN 1170; Class: 3 Packing Group II
Proper Shipping Name:	2,3-Diethylpyrazine Ethanol Solution; Flammable liquid, n.o.s.
Reportable Quantity (RQ)	No
Marine pollutant	No
Poison Inhalation Hazard	No
<b>IMDG</b>	UN 1170; Class: 3 Packing Group II
Proper Shipping Name:	2,3-Diethylpyrazine Ethanol Solution; Flammable liquid, n.o.s.
Reportable Quantity (RQ)	
Marine pollutant	
<b>IATA</b>	UN 1170; Class: 3 Packing Group II
Proper Shipping Name:	2,3-Diethylpyrazine Ethanol Solution; Flammable liquid, n.o.s.
Reportable Quantity (RQ)	
Marine pollutant	

## Section 15: REGULATORY INFORMATION

SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
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# Safety Data Sheet

## SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

## Massachusetts Right to Know components

Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007

## Pennsylvania Right to Know components

2,3-Diethylpyrazine CAS# 15707-24-1 Rev. Date:  
Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007

## New Jersey Right to Know components

2,3-Diethylpyrazine CAS# 15707-24-1 Rev. Date:  
Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007

## California Prop. 65 components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## Section 16: OTHER INFORMATION

### HMIS Rating

Health hazard 2  
Chronic Health Hazard  
Flammability 2  
Reactive Hazard 0

### Further Information

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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