Safety Data Sheet

The Natural Choice for Flavor and Fragrance Ingredients

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	**2,3-Diethyl-5-methylpyrazine 5% in EtOH, Natural**
Product Number	**0333605**
CAS-No.	18138-04-0/64-17-5

1.2 Product Recommended Use **Flavorings**

1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992- USA
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

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.
P403+P235	Store in a well ventilated area. Keep cool.
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-5-methyl-1,4-diazine
Formula	$C_9H_{14}N_2$
Molecular Weight	150.23 g/mol
CAS-No	18138-04-0/64-17-5
EC-No.	242-024-6

Hazardous Components

Component	Classification	Concentration
2,3-Diethyl-5-methylpyrazine	Skin irritation (2), H315; Eye Irrit. 2A; H319;	~ 5%
Ethanol	Resp Irrit. STOT SE 3; H335 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/m3	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.0.11mm. 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

9.2 Other Safety Information No data available

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity No data available

10.2 Chemical Stability Stable under recommended storage conditions

10.3	**Possibility of Hazardous reactions**	Vapours may form explosive mixture with air.
10.4	**Conditions to avoid**	Heat, flames and sparks
10.5	**Incompatible materials**	Strong oxidizing agents, strong acids
10.6	**Hazardous decomposition products**	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

DOT (US)	UN1170; Class: 3 Packing Group II
Proper Shipping Name	2,3-Diethyl-5-methylpyrazine Ethanol solution; Flammable liquid, n.o.s.
Reportable Quantity (RQ)	No
Marine pollutant	No
Poison Inhalation Hazard	No
IMDG	UN 1170; Class: 3 Packing Group II 2,3-Diethyl-5-methylpyrazine Ethanol solution; Flammable liquid, n.o.s.
IATA	UN 1170; Class: 3 Packing Group II 2,3-Diethyl-5-methylpyrazine Ethanol solution; Flammable liquid, n.o.s.

Section 15: REGULATORY INFORMATION

SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
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-Diethyl-5-methylpyrazine CAS# 18138-04-0 Rev. Date: Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007
New Jersey Right to Know components	2,3-Diethyl-5-methylpyrazine CAS# 18138-04-0 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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