Safety Data Sheet

The Natural Choice for Flavor and Fragrance Ingredients

HEALTH	3
FLAMMABILITY	2
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	**Valeric Acid, Natural**
Product Number	**0310100**
CAS-No.	**109-52-4**

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)
- Skin corrosion (Category 1B)
- Serious eye damage (Category 1)
- Short-term (Acute) aquatic toxicity (Category 3)
- Long-term (chronic) aquatic hazard (Category 3)

2.2 GHS Label Elements, Including precautionary statements

Pictogram

Signal Statement **Danger**

Hazard Statement(s)

H314	Causes severe skin burns and eye damage
H318	Serious eye damage
H402	Acute aquatic toxicity
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statement(s)

P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353	IF ON SKIN (or hair) Remove/Take off immediately all contaminated clothing. Rinse

	skin with water/shower
P304+P340+P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/ doctor.
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 POISON CENTER or doctor/physician
P333+P313	If skin irritation occurs: Get medical advice/ attention.
P337+P313	If eye irritation persists: Get medical advice/ attention.
P361+P364	Take off immediately all contaminated clothing and wash before reuse.
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.
P403+P235	Store in a well ventilated place. 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	Pentanoic Acid
Formula	$C_5H_{10}O_2$
Molecular Weight	102.13 g/mol
CAS-No	109-52-4
EC-No.	203-677-2

Hazardous Components

Component	Classification	Concentration
Pentanoic Acid	Skin corrosion (1B), H314 Serious eye damage (1), H318 Acute aquatic toxicity (3), H402 Chronic aquatic toxicity (3), H412	<= 100%

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 No data available

attention and special treatment needed

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
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

Contains no substances with occupational exposure limit values

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	Tightly fitting safety goggles. Face shield (8" min.). 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 Butyl rubber gloves, 0.3 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 of flame retardant, antistatic material, 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. Discharge into the environment must be avoided.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a	Appearance	Colorless to pale yellow liquid
b	Odor	Rancid, unpleasant
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	Melting Point: -63°C
f	Boiling Point	151-156°C
g	Flash Point	113°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	2.56 (Air = 1.0)
m	Relative density @25°C	1.067 g/mL at 25 °C
n	Solubility	Slightly soluble
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**	No data available
10.4	**Conditions to avoid**	No data available
10.5	**Incompatible materials**	Strong oxidizing agents
10.6	**Hazardous decomposition products**	Hazardous decomposition products formed under fire conditions. - Carbon oxides
10.7	**Further Information**	No data available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LD50-Oral - Mouse	600 mg/kg
LC50-Intravenous-Mouse	No data available
LC50-Parenteral-Rat	
LD50-Dermal-Rabbit	No data available
Skin corrosion/irritation	Rabbit: Causes burns
Serious eye damage/eye irritation	Rabbit: Corrosive to eyes
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
Signs and Symptoms of Exposure	Gastrointestinal disturbance, Nausea, Headache, Vomiting

	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**	Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 45 mg/l - 48 h and other aquatic invertebrates
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**	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. **Harmful to aquatic life.**

Section 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Product:	According to local regulations
Packaging	According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US)	UN Number: 3265 Class: 8 Packing Group III
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, NOS
Reportable Quantity (RQ)	No
Marine pollutant	Yes
Poison Inhalation Hazard	No
IMDG	UN Number: 3265 Class: 8 Packing Group III
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, NOS
Marine Pollutant	No
IATA	UN Number: 3265 Class: 8 Packing Group III
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, NOS

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	Acute Health Hazard, Chronic Hazard
Massachusetts Right to Know components	Valeric acid CAS# 109-52-4 Rev. Date: 1993-04-24
Pennsylvania Right to Know	Valeric acid CAS# 109-52-4 Rev. Date: 1993-04-24

components

New Jersey Right to Know components	Valeric acid CAS# 109-52-4	Rev. Date: 1993-04-24
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 3
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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