

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Piperitone, Natural
Product Number	0224800
CAS-No.	89-81-6

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 Liquid (Category 4) Skin corrosion/irritation (Category 2) Serious eye damage/eye irritation (Category 2)
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2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

Warning

Hazard Statement(s)

H227	Combustible liquid
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Precautionary Statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Take off contaminated clothing and wash before reuse.
P332+P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P337+P313	If eye irritation persists: Get medical advice/ attention.
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403+P235	Store in a well ventilated place. Keep cool
P501	Dispose of contents/container in accordance with local/regional/national/international regulations
2.3 HNOC (Hazards not otherwise classified or not covered by GHS)	None

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Chemical	3-Carvomethenone
Formula	C ₁₀ H ₁₆ O
Molecular Weight	152.23 g/mol
CAS-No	89-81-6
EC-No.	201-942-7

Hazardous Components

Component	Classification	Concentration
3-Carvomethenone	Flam liq (4); Skin Irrit. (2) Eye Irrit. (2A), H227, H315, H319	< = 100%

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice	Consult a physician. Symptoms of poisoning may occur after several hours; therefore medical observations for at least 48 hours after the accident. 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: Ingestion	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Immediately contact a physician. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.
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

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| 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. |
| 5.4 | Further information | Use water spray to cool unopened containers. Collect contaminated fire fighting water separately. It must not enter the sewage system. |

Section 6: ACCIDENTAL RELEASE MEASURES

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| 6.1 | Personal precautions, protective equipment and emergency procedures | Use of personal protective equipment not required. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. |
| 6.2 | Environment precautions | Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system. |
| 6.3 | Methods and materials for containment and clean up | Contain spillage. Absorb spill with absorbent material, 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

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|-----|--------------------------------------|---|
| 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.
For precautions see section 2.2. |
| 7.2 | Conditions for Safe storage | Keep container tightly closed in a dry and well-ventilated place. |
| 7.3 | Specific End use(s) | Flavorings |

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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| 8.1 | Control parameters
Contains no substances with occupational exposure limit values | |
| 8.2 | Exposure Controls
Appropriate Engineering Controls | Provide adequate general and local exhaust ventilation. 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	Safety goggles are recommended during refilling. Use equipment for eye protection tested and approved under appropriate government standards.
Skin protection	Handle product with gloves. Gloves to be impermeable and resistant to the substance/preparation. Selection of glove material should be based on consideration of the penetrate times, rates of diffusion and the degradation. Dispose of contaminated gloves after use. Wash and dry hands.
Body protection	Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) 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	Pale yellow, clear liquid
b	Odor	Bread-like; spicy; floral
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	< - 50 °C
f	Boiling Point	220°C
g	Flash Point	~84°C
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	No data available
k	Vapor pressure	0.053 hPa at 20 °C
l	Vapor density	No data available
m	Relative density @20°C	No data available
n	Solubility	soluble in alcohol
o	Partition coefficient: n-octanol/water	No data available
p	Auto-ignition Temp.	390 °C (734 °F)
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 No data available

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 2,450 mg/kg

LC50-Inhalation No data available

LD50-Dermal - Rabbit >2500 mg/kg

Skin corrosion/irritation Moderate skin irritation - 24 h

Serious eye damage/eye irritation No irritating effect

Respiratory or skin sensitization No data available

Germ Cell mutagenicity No data available

Carcinogenicity

IARC Substance is not listed

NTP Substance is not listed

OSHA Substance is not listed

Reproductive toxicity	No data available
Teratogenicity	No data available
Specific target organ toxicity-single exposure (GHS)	No data available
Specific target organ toxicity-repeated exposures (GHS)	No data available
Aspiration Hazards	No data available
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:	OT0257000

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity	No data available
12.2 Persistence and degradability	aerobic - Exposure time 28 d
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	Water hazard class (2) Self-Assessment: Hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water even if small quantities leak into the ground.

Section 13: DISPOSAL CONSIDERATIONS

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

Section 14: TRANSPORT INFORMATION

DOT (US)	Not dangerous goods
IMDG	Not a dangerous goods
IATA	Not a dangerous goods

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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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

No SARA Hazards

Massachusetts Right To Know Components:
No components are subject to the
Massachusetts Right to Know Act.

Pennsylvania Right To Know Components:
6-Isopropyl-3-methyl-2-cyclohexen-1-one
CAS-No. 89-81-6

New Jersey Right To Know Components:
6-Isopropyl-3-methyl-2-cyclohexen-1-one
CAS-No. 89-81-6

Section 16: OTHER INFORMATION

HMIS Rating

Health hazard 2
Chronic Health Hazard
Flammability 2
Physical Hazard 0

Chemical Safety Assessment has not been carried out.

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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