

Safety Data Sheet

HEALTH	1
FLAMMABILITY	2
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	2-Octanone, Natural
Product Number	0280200
CAS-No.	111-13-7

1.2 Product Recommended Use

Flavorings

1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992
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 3) H226
Acute toxicity, Dermal (Category 4) H312
Acute aquatic toxicity, (Category 3) H402
Chronic aquatic toxicity (Category 3) H412

2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

Warning

Hazard Statement(s)

H226 Flammable liquid and vapor
H312 Harmful in contact with skin
H412 Harmful to aquatic life with long lasting effects

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/ventilation/lighting/equipment

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- P242 Use only non-sparking tools
 P243 Take precautionary measures against static discharge
 P273 Avoid release into the environment
 P280 Wear protective gloves/protective clothing/eye protection/face protection
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 P303+P361+P353 Call a POISON CENTER or doctor/physician if you feel unwell
 P312 Wash contaminated clothing before reuse
 P363 In case of fire: use dry sand, dry chemical, or alcohol resistant foam for extinction
 P370+P378 Store in a well ventilated place. Keep cool
 Dispose of contents/container to an approved waste disposal plant
 P403+P235
 P501

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

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms Hexyl Methyl Ketone

Formula $C_8H_{16}O$
 Molecular Weight 128.21 g/mol
 CAS-No 111-13-7
 EC-No. 203-837-1

Hazardous Components

Component	Classification	Concentration
Octan-2-one	Flammable Liquid (3) H226 Acute Toxicity (4) H312 Acute Aquatic Toxicity (3) H402 Chronic Aquatic Toxicity (3) H412	

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

- General advice Consult 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 and contact a physician.
- Contact with eyes: Rinse thoroughly with plenty of water for at least 15 as a precaution.
 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.

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| 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 | For small (incipient) fires, use media such as alcohol foam, dry chemicals, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray. Solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water. |
| 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. |

Section 6: ACCIDENTAL RELEASE MEASURES

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| 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 area. 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. |
| 6.3 Methods and materials for containment and clean up | Contain spillage. Soak up with absorbent material. Sweep up with broom and shovel. 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. |
| 7.2 Conditions for Safe storage | Keep container tightly closed in a cool, dry, and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |
| 7.3 Specific End use(s) | Flavorings |

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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| 8.1 Control parameters |
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Components no substance with workplace control parameters
Contains no substances or mixtures 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 day.

Personal protective equipment

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

Eye/face protection	Wear appropriate safety glasses with side shields conforming to EN 166. 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, 0.3mm when handling this product. 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	Impervious clothing 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 multipurpose combination (US) or Type ABEK (EN 14387) respirator cartridges as a back up to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Use respirator and components tested and approved under appropriate government standards such as NIOSH (US) or CE N (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 pale yellow liquid
b Odor	Floral, Bitter Green, unripe apple
c Odor Threshold	No data available
d pH	No data available
e Melting Point /Freezing Point	No data available
f Boiling Point	174-175°C

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g	Flash Point	61°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	No data available
l	Vapor density	No data available
m	Relative density at 25°C	0.813-0.823
n	Solubility	1:1 in 95% alcohol
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	Vapors may form explosive mixture with air
10.4	Conditions to avoid	Heat, Flames and sparks.
10.5	Incompatible materials	Strong Oxidizing agents, Strong reducing agents, Strong Bases
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	3,089 mg/kg

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LC50-Inhalation	No data available
LD50-Dermal-Rabbit	1,337 mg/kg
Skin corrosion/irritation	Rabbit: Mild skin irritation 24 h
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ Cell mutagenicity	No data available
Carcinogenicity	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
Reproductive toxicity	<p>Mouse: Intraperitoneal</p> <p>Effects on Fertility: Female Fertility index (e.g. # females pregnant per # sperm positive females' # females pregnant per # females mated)</p>
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
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 effect	No data available
RTECS:	RH1484000

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity	<u>To FISH:</u> LC-50- Pimephales promelas (fathead minnow) 36 mg/l 96 h
12.2 Persistence and degradability	No data available

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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: 1224 Class: 3 Packing Group: III
Proper shipping name:	Ketones, Liquid, n.o.s. (Octan-2-one)
Marine Pollutant:	No
Poison Inhalation Hazard:	No
IMDG	UN-Number: 1224 Class: 3 Packing Group: III EMS-No: F-E, S-D
Proper shipping name:	KETONES, LIQUID, N.O.S. (OCTAN-2-ONE)
Marine Pollutant:	No
IATA	UN-Number: 1224 Class: 3 Packing Group: III
Proper shipping name:	Ketones, Liquid, n.o.s. (Octan-2-one)

Section 15: REGULATORY INFORMATION

Reach No.	A registration number is not available for this substance as its uses are exempted from registration, the annual tonnage not require a registration or the registration is envisaged for a later registration deadline.
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	No components are subject to the Massachusetts Right to Know Act

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components

Pennsylvania Right to Know components Octan-2-one CAS# 111-13-7 Rev. Date:

New Jersey Right to Know components Octan-2-one CAS# 111-13-7 Rev. Date:

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 1
 Chronic Health Hazard
 Flammability 2
 Physical 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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