

Safety Data Sheet

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	2-Nonanone (Methyl Heptyl Ketone), Natural
Product Number	0278500
CAS-No.	821-55-6

REACH No.	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
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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
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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 4), H227
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Specific target organ toxicity- Single Exposure (Category 3)
Respirator system, H335
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

2.2 GHS Label Elements, Including precautionary statements

Pictogram



WARNING

Signal Statement
Hazard Statement(s)

H227	Combustible liquid
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

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Precautionary Statement(s)	H412	Harmful to aquatic life with long lasting effects
	P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
	P261	Avoid breathing dust/fume/gas/mist/vapors/spray
	P264	Wash skin thoroughly after handling
	P271	Use only outdoors or in a well ventilated area
	P273	Avoid release into the environment
	P280	Wear protective gloves/protective clothing/ eye protection and face protection
	P302+P352	IF ON SKIN: Wash with plenty of soap and water
	P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P312	Call a POISON CENTER or doctor/physician if you feel unwell
	P321	Specific treatment (see supplemental first aid instructions on this label)
	P332+P313	If skin irritation occurs: Get medical advice/attention
	P337+P313	If eye irritation occurs: Get medical advice/attention
	P362	Take off contaminated clothing and wash before re-use
	P370+P378	In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction
	P403+P233	Store in a well ventilated place. Keep container tightly closed
	P403+235	Store in a well ventilated place. Keep cool
	P405	Store locked up
	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

Chemical characterization	Natural Product
Synonyms	Heptyl methyl Ketone
Formula	C ₉ H ₁₈ O
Molecular Weight	142.24 g/mol
CAS-No	821-55-6
EC-No.	212-480-0

Hazardous Components

Component	Classification	Concentration
Nonan-2-one	Flammable Liquid (4) H227	-
	Skin irritant (2), H315	
	Eye irritant (2A), H319	
	STOT SE (3), H335	
	Aquatic Acute (3), H402	
	Aquatic Chronic (3).H412	

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

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	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	For small (incipient) fires, use media such as alcohol foam, dry chemical or carbon dioxide. For large fires, apply water from as far away 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. 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	Pick up and arrange disposal without creating dust. 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.

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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 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
Components with workplace control parameters | Contains no substance with workplace control parameters |
| 8.2 | Exposure Controls
Appropriate Engineering Controls | Handle in accordance with good industrial hygiene and safety practices. |
| | 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 tightly fitting safety goggles. NIOSH tested and approved. |
| | Skin protection | Wear chemically resistant gloves of Butyl rubber. 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, made of flame retardant antistatic material 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 (US) 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 (US) 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

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|-----|--|---------------------------------|
| 9.1 | Information on basic physical and chemical properties | |
| a | Appearance | Colorless to pale yellow liquid |
| b | Odor | Characteristic odor |
| c | Odor Threshold | No data available |

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d	pH	No data available
e	Melting Point /Freezing Point	Melting Point -21°C
f	Boiling Point	195°C
g	Flash Point	64.4°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	0.817-0.823
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	No data available
10.4 Conditions to avoid	Heat, Flames and Sparks
10.5 Incompatible materials	Bases, 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	3.200 mg/kg
LC50-Inhalation	No data available
LD50-Dermal-Rabbit	>5,000 mg/kg
Skin corrosion/irritation	No data available
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.

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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)	Inhalation – 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:	RA8225000

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity	
Fish:	LC50- Pimephales promelas (fathead minnow) 15.2 mg/l – 96h
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 with long lasting effects. Do not empty into drains.

Section 13: DISPOSAL CONSIDERATIONS

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

Section 14: TRANSPORT INFORMATION

DOT (US)	NA-Number 1993 Class: None Packing Group III
Proper Shipping Name	Combustible Liquid, n.o.s. (Nonan-2-one)
Marine pollutant	No
Poison Inhalation Hazard	No
IMDG	Not dangerous goods
IATA	Not dangerous goods

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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 nod 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 components	No components are subject to the Massachusetts Right to Know Act		
Pennsylvania Right to Know components	Nonan-2-one	CAS# 821-55-6	Rev. Date:
New Jersey Right to Know components	Nonan-2-one	CAS# 821-55-6	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	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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