

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	4-Phenyl-3-buten-2-one, Natural
Product Number	0288100
CAS-No.	122-57-6

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)	Skin irritation (Category 2) Skin sensitisation (Category 1)
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2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement
Hazard Statement(s)

Warning

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

Precautionary Statement(s)

P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P313+P333	If skin irritation or rash occurs: Get medical advice/ attention

P362 Take off contaminated clothing and wash before reuse
 P403+P233 Store in a well ventilated place. Keep container tightly closed.
 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 Benzalacetone

Formula C₁₀H₁₀O
 Molecular Weight 146.19 g/mol
 CAS-No 122-57-6
 EC-No. 204-555-1

Hazardous Components

Component	Classification	Concentration
4-Phenyl-3-butenone	Skin irritation (2) H315 Skin sensitisation (1), H317	<= 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 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, 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. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Evacuate personnel to safe 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**
- 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

- 7.1 Precautions for safe handling**
- Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion proof equipment. 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 are opened must be carefully resealed and kept upright to prevent leakage.
- Recommended storage temperature 2-8°C
Handle and store under inert gas.
Air and moisture sensitive
- 7.3 Specific End use(s)**
- Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**

Components no substance with workplace control parameters

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 and face shield. NIOSH tested and approved.
Skin protection	Wear chemically resistant, rubber gloves. 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 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 back up to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CN (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	Light yellow, solidified mass or fragments
b	Odor	No data available
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	Melting point/range: 39 - 42 °C (102 - 108 °F) – lit.
f	Boiling Point	260-262°C
g	Flash Point	123 °C (253 °F) - closed cup
h	Evaporation Rate	No data available

Safety Data Sheet

i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	No data available
k	Vapor pressure	0.01 hPa at 25 °C (77 °F)
l	Vapor density	No data available
m	Relative density at 25°C	1.003 g/cm ³ at 45 °C (113 °F)
n	Solubility	1.3 g/l at 20 °C (68 °F) - soluble in water
o	Partition coefficient: n-octanol/water	log Pow: 2.1
p	Auto-ignition Temp.	370 °C (698 °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	Vapors may form explosive mixture with air
10.4	Conditions to avoid	Heat, Flames and sparks. Extremes of temperature and direct sunlight.
10.5	Incompatible materials	Strong oxidizing agents, Strong acids
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-Rat	2,031 mg/kg
LC50-Inhalation	No data available

LD50-Dermal-Rabbit	3,000 mg/kg
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Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	No data available

Respiratory or skin sensitization	May cause skin sensitisation.
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) Inhalation – May cause respiratory irritation

Specific target organ toxicity-repeated exposures (GHS) No data available

Aspiration Hazards No data available

Potential Health effects Stomach-Irregularities – Based on Human Evidence
 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: EN0330000

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) Not a dangerous goods.

IMDG Not a dangerous goods.

IATA Not a dangerous goods.

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	Acute Health Hazard, Chronic Health Hazard	
Massachusetts Right to Know components	No components are subject to the Massachusetts Right to Know Act	
Pennsylvania Right to Know components	4-Phenyl-3-buten-2-one CAS# 122-57-6	Rev. Date:
New Jersey Right to Know components	4-Phenyl-3-buten-2-one CAS# 122-57-6	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	3
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.

Issued by:	Contact Person:
Aurochemicals	Deo N. Persaud
7 Nicoll Street	Revised Date: 8/5/2022

Safety Data Sheet



The Natural Choice for Flavor
and Fragrance Ingredients

Washingtonville, NY 10992 USA	
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