

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product Name	<b>Benzaldehyde, Natural (Import Domestic)</b>
Product Number	<b>0212700</b>
CAS-No.	<b>100-52-7</b>

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 liquids (Category 4), H227 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Dermal (Category 4), H312 Skin irritation (Category 2), H315 Respiratory sensitisation (Category 1), H334 Skin sensitisation (Category 1), H317 Acute aquatic toxicity (Category 2), H401
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### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

**DANGER**

Hazard Statement(s)

H227	Combustible liquid
H302+H312	Harmful if swallowed or in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H401 Toxic to aquatic life

Precautionary Statement(s)

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  
 P270 Do not eat drink or smoke when using this product  
 P272 Contaminated work clothing should not be allowed out of the workplace  
 P273 Avoid release to the environment  
 P280 Wear protective gloves/protective clothing/eye protection/face protection  
 P285 In case of inadequate ventilation, wear respiratory protection  
 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water  
 P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing  
 P330 Rinse mouth  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention  
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician  
 P362 Take off 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 Bitter almond  
 Formula  $C_7H_6O$   
 Molecular Weight 106.12 g/mol  
 CAS-No 100-52-7  
 EC-No. 202-860-4  
 Index No. 605-012-00-5

#### Hazardous Components

Component	Classification	Concentration
Benzaldehyde	Flammable liquids (4), H227 Acute toxicity, Oral (4), H302 Acute toxicity, Dermal (4), H312 Skin irritation (2), H315 Respiratory sensitisation (1), H334 Skin sensitisation (1), H317 Acute aquatic toxicity (2), H401	-

### Section 5: FIREFIGHTING 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.
<b>4.2 Most important symptoms and effects both acute and delayed</b>	See section 2.2 and or section 11
<b>4.3 Indication of any immediate medical attention and special treatment needed.</b>	No data available

## Section 5: FIREFIGHTING MEASURES

<b>5.1 Extinguishing Media</b> Suitable Extinguishing Media	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide
<b>5.2 Special hazards arising from the substance or mixture</b>	Carbon oxides
<b>5.3 Advice for fire fighters</b>	Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes under fire conditions.
<b>5.4 Further information</b>	Use water spray to cool unopened containers.

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	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.
<b>6.2 Environment precautions</b>	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.
<b>6.3 Methods and materials for containment and clean up</b>	Contain spillage. Soak up with absorbent material and place in a suitable, closed container for disposal.
<b>6.4 Specific end use(s)</b>	Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

## Section 7: HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>	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
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charge.

## 7.2 Conditions for Safe storage

Keep container tightly closed in a dry, cool and well-ventilated place. Containers which have been opened must be carefully resealed and kept upright to prevent leakage.  
Air, Light and moisture sensitive  
Handle and store under inert gas

## 7.3 Specific End use(s)

Flavorings

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control Parameters	Basis
Benzaldehyde	100-52-7	TWA	2 ppm	USA. Workplace Environmental Exposure Limits (WEEL)
	Remarks: Dermal Sensitization Notation			
		STEL	4 ppm	USA. Workplace Environmental Exposure Limits (WEEL)
	Remarks: Dermal Sensitization Notation			

### 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

Face shield and safety glasses. 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. 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 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 liquid
b	Odor	No data available
c	Odor Threshold	No data available
d	pH	5.9 at 20°C
e	Melting Point /Freezing Point	Melting Point: -26°C
f	Boiling Point	178-179°C
g	Flash Point	64°C closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	Upper explosion limit: 8.5% (V) Lower explosion limit: 1.4% (V)
k	Vapor pressure	5 hPa at 45°C
l	Vapor density	3.66 (Air=1.0)
m	Relative density @25°C	1.045
n	Solubility	No data available
o	Partition coefficient: n-octanol/water	log Pow: 1.5
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	Strong oxidizing agents, Strong reducing agents, Strong bases, Alkali metals, Aluminum, Iron, Phenols, Oxygen
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

<b>Acute Toxicity</b>	
LD50-Oral- Rat	1,300 mg/kg Remarks: Behavioral: Somnolence (General depressed activity), coma
LC50-Inhalation	No data available
LD50-Dermal-Rabbit	1,250 mg/kg

Skin corrosion/irritation	Rabbit: Skin irritation 24 hr
Serious eye damage/eye irritation	Rabbit: Mild eye irritation
Respiratory or skin sensitization	No data available
Germ Cell mutagenicity	Laboratory experiments have shown mutagenic effects
Carcinogenicity	This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or EPA classification
	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)	No data available
Specific target organ toxicity-repeated exposures (GHS)	No data available
Aspiration Hazards	No data available
Potential Health effects	Central nervous system depression. Prolonged or repeated exposure to skin causes defatting and dermatitis. Liver – Irregularities – Based on Human Evidence
Synergistic effects	No data available
RTECS:	CU4375000

## Section 12: ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	<u>To Fish:</u> LC50-Lepomis macrochirus 1.07 mg/l 96 hr LOEC- Mortality – Pimephales promelas (fathead minnow) 0.45 mg/l 7 d NOEC-Mortality – Pimephales promelas (fathead minnow) 0.22 mg/l 7 d LC50- Leuciscus idus (Golden orfe) 62 mg/l 48 h  <u>To Daphnia and other aquatic invertebrates:</u> EC50- Daphnia magna (Water Flea) 50 mg/l 24 h
<b>12.2 Persistence and degradability</b>	Biodegradability: Biotic/Aerobic Exposure time 28 d Result: 95% Readily biodegradable
<b>12.3 Bioaccumulative potential</b>	No data available
<b>12.4 Mobility in soil</b>	No data available

# Safety Data Sheet

**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. Toxic 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

<b>DOT (US)</b>	<b>UN Number: 1990</b>	<b>Class: 9</b>	<b>Packing Group III</b>	
Proper Shipping Name	Benzaldehyde			
Reportable Quantity (RQ)	No			
Marine pollutant	No			
Poison Inhalation Hazard	No			
<b>IMDG</b>	<b>UN Number: 1990</b>	<b>Class: 9</b>	<b>Packing Group III</b>	<b>EMS-No: F-A, S-A</b>
Proper Shipping Name	BENZALDEHYDE			
Marine Pollutant	No			
<b>IATA</b>	<b>UN Number: 1990</b>	<b>Class: 9</b>	<b>Packing Group III</b>	
Proper Shipping Name	Benzaldehyde			

## 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	Fire Hazard, Acute Health Hazard, Chronic Health Hazard		
Massachusetts Right to Know components	Benzaldehyde	CAS# 100-52-7	Rev. Date: 3/1/2007
Pennsylvania Right to Know components	Benzaldehyde	CAS# 100-52-7	Rev. Date: 3/1/2007
New Jersey Right to Know components	Benzaldehyde	CAS# 100-52-7	Rev. Date: 3/1/2007
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.

<b>Issued by:</b>	<b>Contact Person:</b>
Aurochemicals	Deo N. Persaud
7 Nicoll Street	Revised Date: 8/7/2022
Washingtonville, NY 10992 USA	