

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Benzaldehyde, Natural (Manufacturing)
Product Number	0212700
CAS-No.	100-52-7

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.
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	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. 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	Contain spillage. Soak up with absorbent material 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

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
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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

Acute Toxicity	
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

12.1 Toxicity	<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
12.2 Persistence and degradability	Biodegradability: Biotic/Aerobic Exposure time 28 d Result: 95% Readily biodegradable
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	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

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

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