

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Borneol, Natural
Product Number	0215700
CAS-No.	507-70-0

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 the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable solids (Category 2), H228
Skin sensitisation (Category 1), H317
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412
For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement	Warning	
Hazard Statement(s)	H228	Flammable solid
	H317	May cause an allergic skin reaction
	H412	Harmful to aquatic life with long lasting effects
Precautionary Statement(s)	P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
	P240	Ground/bond container and receiving equipment
	P241	Use explosion proof electrical/ventilating/lighting equipment
	P261	Avoid breathing dust
	P272	Contaminated work clothing should not be allowed out of the

P273	workplace. Avoid release to the environment
P280	Wear protective gloves/clothing face and eye protection
P302+P321+ P352	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P333+P313+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P333+P313	If skin irritation occurs: Get medical advice/attention
P337+P313	If eye irritation persists: Get medical advice/attention
P363	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.
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

Synonym	Bornyl alcohol
Formula	C ₁₀ H ₁₈ O
Molecular Weight	154.25 g/mol
CAS-No	507-70-0

Hazardous components

Component	Classification	Concentration
Bornyl alcohol	Flam. Sol. 2; Skin Sens. 1; Aquatic Acute 3; Aquatic Chronic 3; H228, H317, H412	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

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
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water.
Contact with eyes:	Flush eyes with water as a precaution.
Ingestion	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.
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.
- 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 dusts. Ensure adequate ventilation
- 6.2 **Environmental precautions** Prevent further leakage or spillage. Discharge into the environment must be avoided. Do not allow to enter drains or sewage system.
- 6.3 **Methods and materials for containment and clean up** Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing. Keep in suitable, closed containers 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** Normal measures for preventive fire protection.
- 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.
Recommended storage temperature: 2-8°C
Light sensitive
- 7.3 **Specific End use(s)** Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 **Control parameters**
Contains no substances 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 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	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 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	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	Respiratory protection is not required. Where protection is desired, use a multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure	Do not let product enter drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a	Appearance	Off-white to colorless crystals
b	Odor	Piney, camphor-like
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	Melting point/range: 206 - 208 °C - lit.
f	Boiling Point	210 °C- lit.
g	Flash Point	60 °C
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	The substance or mixture is a flammable solid with the category 2.
j	Upper/lower Flammability Limit	No data available
k	Vapor pressure	44.7 hPa (33.5 mmHg) at 25 °C (77 °F)
l	Vapor density	No data available
m	Relative density @25°C	1.067

n	Solubility	Insoluble in water, soluble in most organic solvents
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	No data available
10.5	Incompatible materials	No data available
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 - 5,800 mg/kg

Skin corrosion/irritation

Skin - rabbit
Result: 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

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
Signs and Symptoms of Exposure	Gastrointestinal disturbance, Nausea, Headache, Vomiting
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
Synergistic effects	No data available
RTECS:	Not available

Section 12: ECOLOGICAL INFORMATION

12.1	Toxicity	LC50 - Pimephales promelas (fathead minnow) - 67.8 mg/l - 96 h
	Toxicity to fish	
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.

Section 13: DISPOSAL CONSIDERATIONS

13.1	Disposal methods	
	Product:	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company
	Packaging	According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US)	UN number: 1312 Class: 4.1 Packing group: III Proper shipping name: Borneol Marine pollutant: No
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IMDG	Poison Inhalation Hazard: No UN number: 1312 Class: 4.1 Packing group: III EMS-No: F-A, S-I Proper shipping name: Borneol
IATA	Marine pollutant: No UN number: 1312 Class: 4.1 Packing group: III Proper shipping name: Borneol

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	No SARA Hazards		
Massachusetts Right to Know components	No components are subject to the Massachusetts Right to Know Act		
Pennsylvania Right to Know components	Bornyl alcohol	CAS# 507-70-0	Rev. Date:
New Jersey Right to Know components	Bornyl alcohol	CAS# 507-70-0	Rev. Date:
California Prop. 65 components	This product does not contain any chemical known to the State of California to cause cancer, birth defects, or any other reproductive harm.		

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Flam. Sol.	Flammable solids
H228	Flammable solid.
H317	May cause an allergic skin reaction.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects

HMIS Rating

Health hazard	2
Chronic Health Hazard*	
Flammability	2
Physical Hazard	2

NFPA Rating

Health hazard:	2
Fire Hazard:	2
Reactivity Hazard:	2

Further Information

Safety Data Sheet



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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