SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)



Product Name d-Hazeltone Natural, 1% in OH

1. Identification

Product identifier

Product Name d-Hazeltone Natural, 1% in OH

Other means of identification

Chemical name 5-Methyl-2-hepten-4-one

Product Code(s) NA3761-D-1-OH

UN number or ID number 1170

Recommended use of the chemical and restrictions on use

Recommended use flavors

Restrictions on use No information available

Details of the supplier of the safety data sheet

Manufacturer Address

Axxence Corporation 1050 Cypress Creek Rd. Oakdale, La 71463 www.axxence.com Tel. 318-215-1456 Fax 318-335-1579

Emergency telephone number

Emergency Telephone EMERGENCY 24 HOUR CONTACT

ChemTrec: 1-800-424-9300

Contract # 219030

2. Hazard(s) identification

Classification

Classification according to Regulation 29 CFR 1910.1200

Flammable liquids Category 2

Hazards not otherwise classified (HNOC)

Not applicable.

Label elements



Danger

Hazard statements

Highly flammable liquid and vapor.

Precautionary Statements - Prevention

Use explosion-proof electrical/ ventilating/ lighting/ equipment.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use only non-sparking tools.

Take action to prevent static discharges.

Wear protective gloves, eye protection and face protection.

Precautionary Statements - Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. In case of fire: Use CO2, dry chemical, or foam to extinguish.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

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Other information

3. Composition/information on ingredients

Product Name d-Hazeltone Natural, 1% in OH

Substance

Not applicable.

Mixture

Formula C8H14O

Molecular weight 126.19 g/mol

Chemical name	CAS No.	EC No (EU Index No)	Weight-%	Trade secret
Ethanol	64-17-5	200-578-6	99	-
		(603-002-00-5)		

4. First-aid measures

Description of first aid measures

Inhalation Remove to fresh air.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes.

Ingestion Rinse mouth.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use

personal protective equipment as required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Flash point 16 °C / 60.8 °F

Flammability Limit in Air

Upper flammability or explosive No data available

Eye contact

Lower flammability or explosive No data available

limits

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

CAUTION: Use of water spray when fighting fire may be inefficient. Large Fire

Do not scatter spilled material with high pressure water streams. Unsuitable extinguishing media

Specific hazards arising from the Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire chemical

extinguishing water must be disposed of in accordance with local regulations.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

Special attention to fire and

explosion

None

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Use personal protective equipment as required. See Personal precautions

> section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the

product must be grounded. Do not touch or walk through spilled material.

Other information Ventilate the area.

Methods and material for containment and cleaning up

Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor **Methods for containment**

suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other

non-combustible material and transfer to containers for later disposal.

Take precautionary measures against static discharges. Dam up. Soak up with inert Methods for cleaning up

absorbent material. Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

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7. Handling and storage

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing

vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers.

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Use according to package label instructions.

Conditions for safe storage, including any incompatibilities

Storage Conditions Cool, Dark area. Purge with Nitrogen after each opening. Keep containers tightly closed in a

dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance

with local regulations.

8. Exposure controls/personal protection

Working area parameters, subject to mandatory control (MAC or TSEL)

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Ethanol	STEL: 1000 ppm	TWA: 1000 ppm	TWA: 1000 ppm;
64-17-5		TWA: 1900 mg/m ³	TWA: 1900 mg/m ³ ;
		(vacated) TWA: 1000 ppm	IDLH: 3300 ppm
		(vacated) TWA: 1900 mg/m ³	

Appropriate engineering controls

General hygiene considerations

Engineering controls Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protectionWear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

Respiratory protection Appropriate respiratory protection should be selected and used according to the chemical

nature, hazards and use of this product and safety requirements of the local jurisdiction. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is

recommended. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical stateLiquidAppearanceClearColorColorlessOdornutty, roasted

Odor threshold No information available

Property Values Remarks • Method

pHNo data availableNone knownMelting point / freezing pointNo data availableNone knownBoiling point78 °C / 172.4 °FNone knownFlash point16 °C / 60.8 °FCC (closed cup)

None known

Evaporation rateNo data availableNone knownFlammabilityNo data availableNone knownFlammability Limit in AirNone known

Upper flammability or explosive limits No data available Lower flammability or explosive limits No data available

Vapor pressure No data available None known Relative vapor density >1.0 None known Relative density 0.7884 - 0.8284 None known Soluble in water None known Water solubility Solubility(ies) Alcohol, Oil, Propylene Glycol None known Partition coefficient No data available None known **Autoignition temperature** No data available None known

Decomposition temperature

No data available

None known

None known

None known

None known

None known

No data available

Refractive Index 1.363 - 1.367

Other information

Dynamic viscosity

Explosive propertiesNo information availableOxidizing propertiesNo information availableSoftening pointNo information available

Molecular weight 126.19 g/mol

VOC content
Liquid Density
No information available
No information available
No information available

10. Stability and reactivity

Reactivity
Chemical stability
Possibility of hazardous reactions
Conditions to avoid

No information available.
Stable under normal conditions.
None under normal processing.
Heat, flames and sparks.

Incompatible materials None known based on information supplied. Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

InhalationSpecific test data for the substance or mixture is not available.Eye contactSpecific test data for the substance or mixture is not available.

Skin contact May be harmful in contact with skin.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

 ATEmix (oral)
 6,885.80 mg/kg

 ATEmix (dermal)
 5,000.00 mg/kg

 ATEmix (inhalation-gas)
 99,999.00 ppm

 ATEmix (inhalation-dust/mist)
 118.10 mg/l

 ATEmix (inhalation-vapor)
 99,999.00 mg/l

Component Information

	· · · · · · · · · · · · · · · · · · ·					
Chemical name		Oral LD50	Dermal LD50	Inhalation LC50		
	Ethanol	= 7060 mg/kg (Rat)	-	= 116.9 mg/L (Rat) 4 h		

64-17-5		= 133.8 mg/L (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation
Serious eye damage/eye irritation
Respiratory or skin sensitization
Germ cell mutagenicity
Carcinogenicity

No information available.
No information available.
No information available.
No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethanol 64-17-5	A3 A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans	Group 1	Known	X

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans NTP (National Toxicology Program)

Known - Known Carcinogen

Occupational Safety and Health Administration of the US Department of Labor

X - Present

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

Target organ effects Liver, Respiratory system, Eyes, Skin, Central nervous system, Blood, Reproductive

system.

Aspiration hazard No information available.
Other adverse effects No information available.
Interactive effects No information available.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Ethanol	-	LC50: 12.0 - 16.0mL/L	-	LC50: 9268 - 14221mg/L
64-17-5		(96h, Oncorhynchus		(48h, Daphnia magna)
		mykiss)		EC50: =2mg/L (48h,
		LC50: >100mg/L (96h,		Daphnia magna)
		Pimephales promelas)		_
		LC50: 13400 - 15100mg/L		
		(96h, Pimephales		
		promelas)		

Persistence and degradability

No information available.

Bioaccumulation

PBT and vPvB assessmentNo information available.

Chemical name	PBT and vPvB assessment	
Ethanol	Not PBT/vPvB	

Component Information

Chemical name	Partition coefficient	
Ethanol	-0.35	
64-17-5		

Mobility in soilNo information available.Other adverse effectsNo information available.

13. Disposal considerations

Disposal methods

Waste from residues/unused Should not be released into the environment. Dispose of in accordance with local

products regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld

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containers.

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as

a hazardous waste.

14. Transport information

DOT

UN number or ID number 1170

Proper shipping name Ethanol solution

Transport hazard class(es) 3
Packing group II
DOT Marine Pollutant NP

<u>IATA</u>

UN number or ID number 1170

UN proper shipping name Ethanol solution

Transport hazard class(es) 3
Packing group | |

IMDG

UN number or ID number 1170

UN proper shipping name Ethanol solution

Transport hazard class(es) 3
Packing group II
Marine pollutant indicator NP

15. Regulatory information

International Inventories

TSCA Listed

DSL/NDSL Listed Not Listed **EINECS/ELINCS ENCS** Listed **IECSC** Listed **KECL** Not Listed **PICCS** Listed AIIC Listed **NZIoC** Listed **Taiwan** Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIoC - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

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SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65	
Ethanol - 64-17-5	Carcinogen	
	Developmental	

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethanol	X	X	X
64-17-5			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA Health hazards 1 Flammability 3 Instability 0 Special hazards - Health hazards 2 Flammability 3 Physical hazards 0 Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Sk* Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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Revision NoteNo information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet