



SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: CDA 12A-1, 200 Proof, Denatured Ethanol with Heptane
CAS number: 64-17-5
Synonyms: Completed Denatured Ethanol with Heptane

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Industrial

1.3 Details of the supplier of the safety data sheet

Company : Lab Alley, LLC
22111 Highway 71 West, Suite 601
Spicewood, Texas 78669
U.S.A.

Telephone : 512-668-9918
Fax : 512-886-4008

1.4 Emergency telephone

Emergency Phone # : US & Canada: 1-800-535-5053 INFOTRAC
International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Flammable liquids (Category 2)
Serious eye damage/eye irritation (Category 2A)

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word:

Danger

Hazard statement(s):

Highly flammable liquid and vapor. Causes serious eye irritation.

Precautionary statement(s):

Prevention - Highly flammable liquid and vapor. Causes serious eye irritation. Prevention Keep away from heat, sparks, open flames, hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion proof electrical/ ventilating/ lighting/ equipment. Use only non sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Wear protective gloves/ eye protection/ face protection. **Response** - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use dry sand, dry chemical, or alcohol resistant foam for extinction.

Hazards not otherwise classified

No information available.

SECTION 3: Composition/information on ingredients

3.1 Components

Name	CAS	Concentration
n-Heptane	142-82-5	1-5
Ethanol	64-17-5	80-100

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.

If inhaled:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

- In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.
- In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- If swallowed:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2).

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable (and unsuitable) extinguishing media

Use water spray, alcohol - resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the substance or mixture

Carbon oxides.

5.3 Special protective equipment and precautions for firefighters

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 vapours, 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. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet - brushing and place in container for disposal according to local regulations.

6.4 Reference to other sections

For disposal see section 13.

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 build up of electrostatic charge.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

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. Hygroscopic

8. Exposure controls/personal protection

8.1 Occupational exposure limits

Name	CAS		
n-Heptane	142-82-5		
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
500 ppm, 2,000 mg/	500 ppm, 2,000 mg/	400 ppm	500 ppm
Ethanol	64-17-5		
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
1000 ppm	Not Available	1000 ppm	Not Available

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

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

Handle with butyl rubber gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Impervious clothing or flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air - purifying respirators are appropriate use a full - face respirator with multipurpose combination (US) 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 - face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (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

Physical State	Liquid.
Appearance	Colorless, clear liquid.
Odor	No data available.
Odor Thresh	No data available.
pH	No data available.
Melting Point/Range	-143.99C (-227.18F)
Boiling Point/Range	78.0-80.0 °C (172.4-176.0 °F)
Flash Point	-14.0 °C (57.2 °F) - closed cup
Evaporation Rate	No data available.
Flammability (solid, gas)	No data available.
Flammability or explosive limit	
	Upper : 19%
	Lower : 3.3%

Vapor Pressure	59.5 hPa (44.6 mmHg) at 20.0 °C (68.0 °F)
Vapor Density	No data available
Density	0.7974 g/cm ³
Solubility	Completely Soluble

Partition coefficient; n-octanol/water	No data available.
Autoignition Temp	363.0 °C (685.4 °F)
Decomposition Temp	No data available.
Viscosity	No data available.
Molecular Formula	C ₂ H ₅ OH
Molecular Weight	46.07 g/mol
VOC Content(%)	No data available.
Oxidizing properties	Not oxidizing.

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

Alkali metals, Oxidizing agents, Peroxides

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Name	CAS
n-Heptane	142-82-5

LD50: > 5,000 mg/kg

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation

Irritating to skin. May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Vapors may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitization

Did not cause sensitization on laboratory animals. Information given is based on data obtained from similar substances.

Germ cell mutagenicity

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or ACGIH

Reproductive toxicity

Species: Rat

Application Route: Inhalation Dose: 0, 900, 3000, 9000 ppm Number of exposures: 6 hr/d, 5 d/wk Test period: 13 wk

Method: OECD Test Guideline 416 NOAEL Parent: 9000 ppm NOAEL F1: 3000 ppm NOAEL F2: 3000 ppm

Additional information Concentrations substantially above the TLV value may cause narcotic effects. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Solvents may degrease the skin.

Name	CAS
Ethanol	64-17-5
LD50 Oral - Rat - 2,743 mg/kg Inhalation:	
No data available	
LD50 Dermal - Rabbit - > 2,000 mg/kg	
Skin corrosion/irritation	Result: Mild skin irritation - 24 h
Serious eye damage/eye irritation	Result: Irritating to eyes. - 24 h No
Respiratory or skin sensitization	data available
Germ cell mutagenicity	No data available
Carcinogenicity	Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA
Reproductive	No data available
Additional information	drying, cracking of the skin, Skin irritation Liver - Irregularities

12. Ecological information

12.1 Toxicity

Name	CAS	Toxicity
n-Heptane	142-82-5	LL50: 1.284 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Method: QSAR LC50: 375 mg/l Exposure time: 96 h Species: Tilapia mosambica (Fish) EC50: 1.5 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Toxic to aquatic organisms. LC50: 0.1 mg/l Exposure time: 96 h Species: Mysidopsis bahia (mysid shrimp) semi-static test Very toxic to aquatic organisms. EL50: 4.338 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (microalgae) Method: QSAR
Ethanol	64-17-5	Not Available

13. Disposal considerations

13.1 Waste Disposal Methods

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container or residue.
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Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
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The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

SECTION 14: Transport information

Proper Shipping Name	Alcohols, n.o.s.
Hazard Class	3
Identification Number	UN1987
Packing Group	II
Label	Flammable

SECTION 15: Regulatory information

Name	CAS
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n-Heptane	142-82-5
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SARA 302/304	No components were identified
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SARA 313	No components were identified
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CERCLA	No components were identified
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SARA 311/312	Fire Hazard Acute
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	Health Hazard
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PROP 65	No components were identified
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This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

Name	CAS
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Ethanol	64-17-5
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SARA 302/304	No components were identified
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SARA 313	No components were identified
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CERCLA	No components were identified
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SARA 311/312	Fire Hazard, Chronic
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	Health Hazard
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PROP 65	No components were identified
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This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

SECTION 16: Other information

Issue Date 04/12/2018

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Disclaimer:

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.