

Lyden Oil Company

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Ethanol C 200

SDS Number: 905231

PRODUCT AND COMPANY INFORMATION

Product Name: Ethanol C 200
Revision Date: 12/14/2023
SDS Number: 905231

<u>Common Name:</u> Denatured Alcohol

<u>CAS Number:</u> Blend <u>Product Code:</u> 905231

Synonyms: Denatured Anhydrous Ethanol

Company Identification:

Manufactured for: LYDEN OIL COMPANY 3711 LeHarps Drive Youngstown, OH 44515

For Product Information: 1-330-792-1100 For Emergencies: 1-800-424-9300

CHEMTREC: 1-800-424-9300 or 1-703-527-3887

HAZARDS IDENTIFICATION



Signal Word:

DANGER

Hazard Classes/Categories:

Flammable liquid, Category 2. Serious eye irritation, Category 2A. Acute toxicity (Oral), Category 4. Acute toxicity (Inhalation), Category 4.



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Acute toxicity (Dermal), Category 4. Carcinogenicity, Category 2.

Hazard Statement(s):

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H332: Harmful if inhaled.

H351: Suspected of causing cancer.

Precaution Statement(s):

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/ eye protection/ face protection.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off

immediately all

contaminated clothing. Rinse skin with water/ shower.

P370 + P378 In case of fire: Use water spray, alcohol-resistant foam,

dry chemical

or carbon dioxide for extinction.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/ attention.



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P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/

physician if you

feel unwell.

P330 Rinse mouth.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest

in a position

comfortable for breathing.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

P362 Take off contaminated clothing and wash before reuse.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P403 + P405 + P235 Store locked up in a well-ventilated place. Keep

cool.

P501 Dispose of contents/ container to an approved waste disposal

plant.

Other Hazard Statement(s):

-NFPA Ratings:

Health = 2

Fire = 3

Reactivity = 0

Repeated exposure may cause skin dryness or cracking. Static

accumulating flammable liquid.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS Number	Percentage
Ethanol	64-17-5	90
Methanol	67-56-1	5
Ethyl Acetate	141-78-6	4
Methyl isobutyl ketone	108-10-1	1

^{*}Any concentration shown as a range is to protect confidentiality or is due to batch variation.



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4 FIRST AID MEASURES

Description of First Aid Measures:

Inhalation:

Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a

physician immediately.

Skin Contact:

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing

before re-use.

Eye Contact:

Rinse thoroughly with plenty of water for at least 15 minutes and

consult a physician.

Ingestion:

If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting without medical advice. Never give anything by

mouth to an unconscious person.

Symptoms and Effects, both acute and delayed:

No further relevent data available.

Recommended Actions:

Treat symptomatically. Call a doctor or poison

control center for guidance.

5 FIRE FIGHTING MEASURES

Recommended Fire-Extinguishing Equipment:

Use water spray, alcohol-resistant foam, dry

chemical or carbon dioxide.



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Possible Hazards During a Fire:

Flash back possible over considerable distance.

NFPA Class IB flammable liquid.

Recommendations to Firefighters:

Wear self-contained breathing apparatus and

protective suit. Keep containers and

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid contact with skin, eyes, and clothing.

Keep away from sources of ignition.

Emergency Procedures:

Evacuate personnel to safe areas. Remove all sources of ignition. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not flush into surface water or sanitary sewer system.

Environmental Precautions:

Avoid release to the environment. Avoid subsoil

penetration.

Cleanup Procedures:

Pick up excess with inert absorbant material.

7 HANDLING AND STORAGE

Handling Precautions:

Ensure all equipment is electrically grounded before

beginning transfer operations. Keep away from

heat and sources of ignition.



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Storage Requirements:

Store in properly closed containers that are appropriately labeled and in a cool, well-ventilated area.

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EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

-Ethanol-

ACGIH STEL 1,000 ppm OSHA PEL 1,000 ppm 1,900 mg/ m³

-Methanol-

OSHA PEL 200 ppm 260 mg/ m³ ACGIH TLV (8-hour) 200 ppm ACGIH STEL 250 ppm

-Ethyl Acetate-

ACGIH TLV (8-hour) 400 ppm 1,400 mg/ m^3 OSHA PEL 400 ppm 1,400 mg/ m^3

-Methyl isobutyl ketone-

OSHA PEL 100 ppm 410 mg/ m³ ACGIH TLV (8-hour) 20 ppm ACGIH STEL 75 ppm

Engineering Controls:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

Personal Protective Equipment:

Keep away from foodstuffs, beverages, and feed. Immediately remove all soiled and contaminated clothing.



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Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin. Use safety glasses and gloves.

PHYSICAL AND CHEMICAL PROPERTIES

Color: Colorless
Physical State: Liquid
Odor: Alcohol-like

Odor Threshold:

pH:

Data not available

Melting Point:

Data not available

-114° C / -173° F

Boiling Point:

74° C / 165° F

Boiling Range: 74-80° C / 165-176° F

Flash Point: 13° C / 55° F Evaporation Rate: Data not available

Flammability: Flammable

Flammability Limits: Upper = 20% / Lower = 4%

Vapor Pressure: 66.661 hPa Vapor Density: Data not available Relative Density: 0.79 g/cm³ at 60° F Solubilities: Complete in water Partition Coefficient: Complete in water 400° C / 752° F Auto-Ignition Temperature: **Decomposition Temperature:** Data not available Data not available Viscosity:

10 STABILITY AND REACTIVITY

Stability:

Stable under normal conditions.

Reactivity:

Not reactive under normal conditions.

Conditions to Avoid:

Extreme temperature, sparks, open flame, and

direct sunlight.



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Hazardous Reactions:

No known hazardous reactions.

Incompatible Materials:

Strong oxidizers, inorganic acids, and halogens.

Decomposition Products:

Combustion products include carbon dioxide, carbon monoxide and possibly other unidentified

organic compounds.

11 TOXICOLOGICAL INFORMATION

Routes of Exposure:

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

accidental inge

Exposure Effects:

This mixture can cause irritation, redness to the eyes. Prolonged and/or repeated skin contact may cause irritation/dermatitis. May be fatal if swallowed and enters airways. Aspiration hazard. Mists and vapors may cause respiratory irritation

,drowsiness and dizziness.

Measures of Toxicity:

Acute dermal toxicity

LD50 rabbit: > 2,000 mg/kg; OECD Test Guideline

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Test substance: Ethanol; (literature value)

LD50 rabbit: > 200 - 1,000 mg/kg
Test substance: Methanol

LD50 rabbit: > 2,000 mg/kg

Test substance: Ethyl Acetate; (literature

value)

LD50 rabbit: > 2,000 mg/kg

Test substance: MIBK; (literature value)



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Acute inhalation toxicity

LC50 mouse (4 hours): > 20 mg/l

Test substance: Ethanol; (literature value)

LC50 rat: > 2 - 10 mg/l

Test substance: Methanol LC50 rat (4 hours): > 10 - 20 mg/l

Test substance: MIBK; (literature value)

Acute oral toxicity

LD50 rat: 2,000 mg/kg; OECD Test Guideline 401 Test substance: Ethanol; (literature value)

LD50 rat: > 50 - 300 mg/kg

Test substance: Methanol

LD50 rat: > 2,000 mg/kg

Test substance: Ethyl Acetate; (literature

value)

LD50 rat: > 2,000 mg/kg

Test substance: MIBK; (literature value)

Skin corrosion/irritation

(rabbit): OECD Test Guideline 404

Test substance: Ethanol

Not irritating, (literature value)

Test substance: Methanol

Irritating (rabbit)

Test substance: Ethyl Acetate Not irritating, (literature value) (rabbit)

Test substance: MIBK

slight irritation, (literature value)

Eye damage/irritation

(rabbit): OECD Test Guideline 405

Test substance: Ethanol

irritating, (literature value)

<u>Carcinogenic/Mutagenic Precautions:</u>

Suspected of causing cancer.



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ECOLOGICAL INFORMATION

Ecological Precautions:

Avoid exposing to the environment.

Ecological Effects:

LC50 (Pimephales promelas (fathead minnow)) 96 hours: > 100 mg/l; flow-

through test

Test substance: Ethanol

(literature value)

LC50 (Pimephales promelas (fathead minnow)) 96 hours: 29,400 mg/l

Test substance: Methanol

LC50 (Pimephales promelas (fathead minnow)) 96 hours: > 100 mg/l; semi-static

test

Test substance: Ethyl Acetate

(literature value)

LC50 (Danio rerio (zebra fish)) 96 hours: > 100 mg/l; static test

Test substance: MIBK (literature value)

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DISPOSAL CONSIDERATIONS

Disposal Methods:

Dispose of only in accordance with local, state, and federal regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

Disposal Containers:

Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged



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and promptly returned to a drum reconditioner, or

properly disposed.

Special Precautions:

Do not flush to surface waters or drains.

14 TRANSPORT INFORMATION

<u>UN Number:</u> UN1987

<u>UN Shipping Name:</u> ALCOHOLS, (ETHANOL), N.O.S.

Transport Hazard Class: 3
Packing Group: II

Environmental Hazards:

Data not available

Bulk Transport Guidance:

Data not available

Special Precautions:

(RQ Methanol) When shipped in quantities greater than 100,000 lbs, RQ must be added to the shipping

description.

15 REGULATORY INFORMATION

This material and all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substances Control Act.

16 OTHER INFORMATION

Last Revision Date: 12/14/2023

The information contained in this Safety Data Sheet (SDS) relates only to the specific material designated. LYDEN OIL COMPANY assumes no legal responsibility of the use or reliance upon this data. This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of the LYDEN OIL COMPANY.