

Safety Data Sheet

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1. Identification of the substance/mixture and of the company/undertaking

Product name: RECOVERED ETHANOL-190 PROOF

Product code: 20395129

Synonyms: None.

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

Identified uses: photographic processing chemical. For industrial use only.

Supplier: Everchem, LLC, 1400 N. Providence Road, Suite 302 Media, PA 19063

For Emergency Health, Safety & Environmental Information, call (585) 722-5151 (USA)

For further information about this product, call (484) 234-5030.

2. Hazards identification

Classification of the chemical in accordance with paragraph (d) of 29 CFR 1910.1200:

Hazard class	Hazard category	Route of exposure
Flammable liquids	Category 2	--
Serious eye damage/eye irritation	Category 2B	--

GHS-Labeling

Contains:

Ethanol (64-17-5)

Symbol(s):



Signal word: Danger

Hazard statements: Highly flammable liquid and vapour. Causes eye irritation.

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Precautionary statements:

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 skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction. IF ON SKIN (or hair): Remove/ 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.

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulation.

HMIS III Hazard Ratings: Health - 1, Flammability - 3, Physical Hazard - 0

NFPA Hazard Ratings: Health - 1, Flammability - 3, Instability - 0

NOTE: HMIS III and NFPA 704 (2007) hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

3. Composition/information on ingredients

Weight percent	Components - (CAS-No.)
90 - < 95	Ethanol (64-17-5)

4. First aid measures

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms occur.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention if symptoms persist.

Skin: Wash off immediately with soap and plenty of water. Get medical attention if symptoms occur.

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Ingestion: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed: No information available.

Indication of any immediate medical attention and special treatment needed:

Treatment: No information available.

5. Firefighting measures

Extinguishing Media: Water spray, Carbon dioxide (CO₂), Dry chemical, Alcohol-resistant foam. Use water spray to cool unopened containers.

Special hazards arising from the substance or mixture

Hazardous Combustion Products: Carbon oxides

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. USE WATER WITH CAUTION. Water may be ineffective.

Unusual Fire and Explosion Hazards: Flammable Material contains a flammable solvent that may accumulate in the container headspace. Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. Prevent buildup of vapours or gases to explosive concentrations. Vapors may travel considerable distance to a source of ignition and flash back.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Refer to protective measures listed in sections 7 and 8.

Methods and materials for containment and cleaning up: Remove all sources of ignition. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Non-sparking tools should be used. Ventilate the area. Prevent runoff from entering drains, sewers, or streams.

Environmental precautions: No information available.

7. Handling and storage

Precautions for safe handling

Personal precautions: Avoid breathing mist or vapour. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling.

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Prevention of Fire and Explosion: Keep away from open flames, hot surfaces and sources of ignition. Use only with adequate ventilation. Keep from contact with oxidizing materials. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

Conditions for safe storage, including any incompatibilities: Store in cool place. Keep containers tightly closed in a cool, well-ventilated place. Keep away from incompatible substances (see Incompatibility section.)

8. Exposure controls/personal protection

Occupational exposure controls

Chemical Name	Regulatory List	Value Type	Value
Ethanol	ACGIH	Short term exposure limit	1,000 ppm
Ethanol	OSHA	Time weighted average	1,000 ppm 1,900 mg/m3

Appropriate engineering controls: Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Controls should be sufficient so that applicable occupational exposure limits are not exceeded.

Individual protection measures, such as personal protective equipment

Eye protection: Wear safety glasses with side shields (or goggles).

Hand protection: Wear protective gloves/ protective clothing.

Respiratory protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. If respirators are used, a program should be instituted to assure compliance with applicable federal, state, commonwealth, provincial, or local laws and regulations.

9. Physical and chemical properties

Physical form: liquid

Colour: Colorless clear

Odour: sweet

Specific gravity: 0.789

Vapour pressure (at 20.0 °C (68.0 °F)): 59 mbar (44.3 mm Hg)

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Vapour density: 1.6

Boiling point/boiling range: 78.29 °C (172.9 °F)

Melting point/range: -114 °C (-173.2 °F)

Water solubility: complete

pH: No data available

Flash point: 8.89 °C (48.0 °F) (Setaflash closed cup)

Evaporation rate: No data available

Flammability (Solid; gas): No data available

Upper explosion limit: No data available

Lower explosion limit: No data available

Partition coefficient: n-octanol/water: log Pow= -0.32

Auto-ignition temperature: 363.0 °C (685.4 °F)

Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available

Oxidizing properties: No data available

10. Stability and reactivity

Reactivity: No data available

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerisation does not occur.

Conditions to avoid: Heat, flames and sparks..

Incompatible materials: Strong oxidizing agents.

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Hazardous decomposition products: None under normal conditions of use.

11. Toxicological information

Effects of Exposure

General advice:

Contains: Ethanol. Prolonged exposure to high vapour concentrations or ingestion of ethanol may cause irritation, headache, drowsiness, fatigue, and narcosis. Can cause CNS effects.

Inhalation: Expected to be a low hazard for recommended handling.

Eyes: Causes eye irritation.

Skin: Expected to be a low hazard for recommended handling.

Ingestion: Expected to be a low ingestion hazard.

Data for Ethanol (CAS 64-17-5):

Acute Toxicity Data:

Oral LD50 (Mouse): > 8,000 mg/kg

- Oral LD50 (female Rat): > 5,000 mg/kg
- Oral LD50 (Rat): 7,060 mg/kg
- Oral LD50 (Rat): 7,060 mg/kg
- Inhalation LC50 (Rat): 20000 ppm / 10 hr
- Inhalation LC50 (Rat): 124.7 mg/l / 4 hr
- Skin irritation: No skin irritation
- Eye irritation: Mild eye irritation

Carcinogenicity

American Conference of Governmental Industrial Hygienists (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.

International Agency for Research on Cancer (IARC):

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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U.S. National Toxicology Program (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.
U.S. Occupational Safety and Health Administration (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.
California Prop. 65	WARNING! This product contains a chemical known to the State of California to cause cancer. WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

12. Ecological information

The following properties are ESTIMATED from the components of the preparations.

Potential Toxicity:

Toxicity to fish (LC50): > 100 mg/l

Toxicity to daphnia (EC50): > 100 mg/l

Persistence and degradability: Readily biodegradable

Bioaccumulative potential

Partition coefficient: n-octanol/water $\log P_{ow} = -0.32$

Mobility in soil

No information available.

13. Disposal considerations

Discharge, treatment, or disposal may be subject to federal, state, commonwealth, provincial, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapours may explode on ignition; do not cut, drill, grind, or weld on or near this container.

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14. Transport information

The information below is provided to assist in documentation. It represents the dangerous goods classification before any regulatory exceptions are taken (e.g. "limited quantity") and therefore may not represent the final classification. The final classification as it pertains to the product packaging configuration (including labeling, marking, and exceptions) may be obtained via the Dangerous Goods Worksheet.

IATA:	UN number:	UN1170
	Proper shipping name:	ETHANOL SOLUTION
	Class:	3
	Packaging group:	II
IMDG:	UN number:	UN1170
	Proper shipping name:	ETHANOL SOLUTION
	Class:	3
	Packaging group:	II
US DOT:	UN number:	UN1170
	Proper shipping name:	ETHANOL SOLUTIONS
	Class:	3
	Packaging group:	II

15. Regulatory information

Notification status

Regulatory List	Notification status
TSCA	All listed
TSCA	All listed
DSL	All listed
DSL	All listed
NDSL	None listed
NDSL	None listed
EINECS	All listed
EINECS	All listed
ELINCS	None listed

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ELINCS	None listed
NLP	None listed
NLP	None listed
AICS	All listed
AICS	All listed
IECS	All listed
IECS	All listed
ENCS	All listed
ENCS	All listed
ECI	All listed
ECI	All listed
NZloC	All listed
NZloC	All listed
PICCS	All listed
PICCS	All listed

"Not all listed" indicates one or more component is either not on the public Inventory or is subject to exemption requirements..

Other regulations

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances:	No components found on the California Director's List of Hazardous Substances.
U.S. - California - 8 CCR Section 5200-5220 - Specifically Regulated Carcinogens:	No components found on the California Specifically Regulated Carcinogens List.
U.S. - California - 8 CCR Section 5203 Carcinogens:	No components found on the California Section 5203 Carcinogens List.
U.S. - California - 8 CCR Section 5209 Carcinogens:	No components found on the California Section 5209 Carcinogens List.
U.S. - Massachusetts - General Law Chapter 111F (MGL c 111F) - Hazardous Substances Disclosure by Employers (a.k.a. Right to Know Law):	No components regulated under the Massachusetts Hazardous Substances Disclosure by Employers Law.

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U.S. - Minnesota Employee Right-to-Know (5206.0400, Subpart 5. List of Hazardous Substances):	No components found on the Minnesota Employee Right-to-Know List of Hazardous Substances.
U.S. - New Jersey - Worker and Community Right to Know Act (N.J.S.A. 34:5A-1):	No components regulated under the New Jersey Worker and Community Right-to-Know Act.
U.S. - Pennsylvania - Part XIII. Worker and Community Right-to-Know Act (Chapter 323 Hazardous Substance List, Appendix A):	No components regulated under the Pennsylvania Worker and Community Right-to-Know Act.

16. Other information

The data below reflects current legislative requirements whereas the product in your possession may carry a different version of the label depending on the date of manufacture.

US/Canadian Label Statements:

RECOVERED ETHANOL-190 PROOF

Contains:

Ethanol (64-17-5)

Symbol(s):



Signal word: Danger

Hazard statements: Highly flammable liquid and vapour. Causes eye irritation.

Precautionary statements:

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 skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.

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Response: In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction. IF ON SKIN (or hair): Remove/ 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.

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulation.

FIRST AID: If symptomatic, move to fresh air. Get medical attention if symptoms occur. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention if symptoms persist. Wash off immediately with soap and plenty of water. Get medical attention if symptoms occur. If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Keep out of reach of children. Do not handle or use until safety precautions in Material Safety Data Sheet (MSDS) have been read and understood. Since emptied containers retain product residue, follow label warnings even after container is emptied. **IN CASE OF FIRE:** Water spray, Carbon dioxide (CO₂), Dry chemical, Alcohol-resistant foam. Use water spray to cool unopened containers. **IN CASE OF SPILL:** Remove all sources of ignition. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Non-sparking tools should be used. Ventilate the area. Prevent runoff from entering drains, sewers, or streams.

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. The information relating to the working solution is for guidance purposes only, and is based on correct mixing and use of the product according to instructions.

R-1, S-1, F-3, C-0