ETHANOL DISINFECTANT (Bittrex added to denature)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

ETHANOL DISINFECTANT

Other means of identification

not applicable

Recommended use

Disinfecting surfaces

Restrictions on use

Reserved for industrial and professional use.

Product dilution information

Product is ready to use.

Company

University of Nebraska - Lincoln Nebraska Innovation Campus

Lincoln, NE

1-402-472-2142

Emergency telephone

1-800-424-9300 (US)

Issuing date

04/7/2020

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids Eye irritation : Category 3 : Category 2A

GHS Label element

Hazard pictograms





Signal Word

: Warning

Hazard Statements

Flammable liquid and vapor. Causes serious eye irritation.

Precautionary Statements

Prevention:

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

Keep container tightly closed.

Response:

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.

Storage:

Store in a well-ventilated place. Keep cool.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture

Mixture

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Chemical Name CAS-No. Concentration (%)

 ethanol
 64-17-5
 80%

 hydrogen peroxide
 7722-84-1
 < 1%</td>

water 7732-18-5 19%

SECTION 4. FIRST AID MEASURES

In case of eye or skin contact : Rinse with water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

Protection of first-aiders Notes to : No special precautions are necessary for first aid responders. :

physician Treat symptomatically.

See toxicological information (Section 11)

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during fire

fighting

: Fire Hazard

Keep away from heat and sources of ignition. Flash back possible over considerable distance.

Beware of vapors accumulating to form explosive concentrations.

Vapors can accumulate in low areas.

Hazardous combustion

products

Carbon oxides

Special protective equipment

for fire-fighters

: Use personal protective equipment.

Specific extinguishing

methods

: Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in

accordance with local regulations. In the event of fire and/or explosion

do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

 Remove all sources of ignition. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

: Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up

Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. 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). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

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SECTION 7. HANDLING AND STORAGE

Advice on safe handling

: Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from fire, sparks

and heated surfaces.

Conditions for safe storage

Keep away from heat and sources of ignition. Keep in a cool, wellventilated place. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled

containers.

Storage temperature

: 0 °C to 35 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
ethanol	64-17-5	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z1

Engineering measures

Eye protection

Hygiene measures

: Good general ventilation should be sufficient to control worker

exposure to airborne contaminants.

Personal protective equipment

Eyelface 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

Hand protection

Handle with 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. Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 175

min. Wash and dry hands. Skin protection

Respiratory protection

Respiratory protection

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose 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).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

opaque, white Color

alcoholic Odor

6.3 - 8.5, 100 % рΗ

Flash point : 23 °C closed cup

Odor Threshold : no data available

: no data available Melting point/freezing point

: no data available

Initial boiling point and

boiling range

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Evaporation rate : no data available Flammability (solid, gas) : no data available Upper explosion limit no data available Lower explosion limit : no data available Vapor pressure no data available Relative vapor density : no data available Relative density : 0.869 - 0.873 Water solubility : no data available Solubility in other solvents : no data available

Partition coefficient: n-

octanol/water

: no data available

: no data available

Autoignition temperature : no data available Thermal decomposition : no data available Viscosity, kinematic : no data available Explosive properties : no data available Oxidizing properties : no data available Molecular weight no data available

SECTION 10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions,

Possibility of hazardous

reactions

VOC

: No dangerous reaction known under conditions of normal use.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials None known. Hazardous decomposition

products

: Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation, Eye contact, Skin contact

exposure

Potential Health Effects

Eyes : Causes serious eye irritation.

Skin : Health injuries are not known or expected under normal use.

Ingestion : Health injuries are not known or expected under normal use.

Inhalation : Health injuries are not known or expected under normal use.

: Health injuries are not known or expected under normal use. Chronic Exposure

Experience with human exposure

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Eye contact

Redness, Pain, Irritation

Skin contact

No symptoms known or expected.

Ingestion

No symptoms known or expected.

Inhalation

No symptoms known or expected.

Toxicity

Acute oral toxicity

: Acute toxicity estimate : > 5,000 mg/kg

Acute inhalation toxicity

no data available

Acute dermal toxicity

no data available

Skin corrosion/irritation

: no data available

Serious eye damage/eye

: no data available

irritation

Respiratory or skin

sensitization

: no data available

Carcinogenicity

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.

OSHA

No ingredient of this product present at levels greater than or equal to

0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No ingredient of this product present at levels greater than or equal to

0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive effects

no data available

Germ cell mutagenicity

no data available

Teratogenicity

no data available

STOT-single exposure

The substance or mixture is not classified as specific target organ

toxicant, single exposure.

STOT-repeated exposure

: no data available

Aspiration toxicity

: no data available

Ingredients

Acute inhalation toxicity

: ethanol

4 h LC50 rat: 117 mg/l

Ingredients

Acute dermal toxicity

: ethanol

LD50 rabbit: 15,800 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects

: Harmful to aquatic life.

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Product

Toxicity to fish : no data available

Toxicity to daphnia and other : no data available

aquatic invertebrates

Toxicity to algae : no data available

Ingredients

Toxicity to fish : ethanol

96 h LC50 Fish: 11,000 mg/l

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : The product should not be allowed to enter drains, water courses or

the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste

disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to

an approved waste handling site for recycling or disposal. Do not re-

use empty containers.

RCRA - Resource

Conservation and Recovery Authorization Act Hazardous

waste

: D001 (Ignitable)

SECTION 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

UN number : 1170 : 1987

Description of the goods : Ethanol solutions : Alcohols, n.o.s,

Class : 3 : 3
Packing group : III OR : II
Environmentally hazardous : no : no

Sea transport (IMDG/IMO)

UN number : 1170

Description of the goods : ETHANOL SOLUTION

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Class

: 3

Packing group

·

Marine pollutant

: no

SECTION 15, REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

: Fire Hazard

Acute Health Hazard

SARA 302

: SARA 302: No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313

: SARA 313: 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.

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

1907/2006 (EU):

not determined

United States TSCA Inventory:

On TSCA Inventory

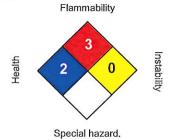
Canadian Domestic Substances List (DSL):

This product contains one or several components that are not on the Canadian DSL nor NDSL.

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SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, * = Chronic

Issuing date

: 04/07/2020

Version

1.0

Prepared by

: EHS

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.