

SDS No.: UU0012

SAFETY DATA SHEET

FLAMMABLE STORAGE CODE RED

Section 1 Chemical Product and Company Identification

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CHEMTREC 24 Hour Emergency
Phone Number (800) 424-9300
For laboratory use only.
Not for drug, food or household use.

Section 2 LOW RANGE PH INDICATOR

Synonyms: None

Section 2 Hazards Identification

Signal word: WARNING

Pictograms: GHS02 / GHS07

Target organs: Eyes, Central nervous system, Liver, Kidneys.



GHS Classification:

Flammable liquid (Category 3)

Skin Irritation (Category 2)

Eye Irritation (Category 2A)

STOT-SE (Category 3)

GHS Label Information: Hazard statement:

H228: Flammable liquid and vapour.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

Precautionary statement:

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

P231: Keep container tightly closed.

P241: Use only approved electrical/ventilating/lighting equipment.

P243: Use only approved electrical/ventilating/lighting equipment.

P261: Avoid breathing mist/vapours/spray.

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

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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

P303+P361+P353: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P362+P364: Take off contaminated clothing and wash it before reuse.

P403+P233: Store in a well-ventilated place. Keep cool.

P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Ca Prop 65: This product contains a chemical known to the State of California to cause reproductive toxicity (Methanol, developmental).

Section 3 Composition / Information on Ingredients

Chemical Name

CAS #

%

EINECS

Water

7732-18-5

69.9%

231-791-2

Ethyl alcohol

64-17-5

25.3

200-578-6

Isopropyl alcohol

67-63-0

1.2

200-661-7

Methanol

67-58-1

0.3%

203-580-6

Methyl isobutyl ketone

108-10-1

0.1%

283-657-4

Bromocresol green, sodium salt

62625-32-6

0.1%

283-653-2

Bromocresol blue, sodium salt

62625-28-9

0.1%

204-981-8

Azarmin red S

130-22-3

<0.1%

252-057-8

Section 4 First Aid Measures

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES SERIOUS EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7

Handling & Storage

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Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8

Exposure Controls / Personal Protection

Chemical Name

ACGIH (TLV)

OSHA (PEL)

NIOSH (REL)

Exposure Limits:

STEL: 1000 ppm / 1880 mg/m³ (A3)

TWA: 1000 ppm / 1800 mg/m³

TWA: 1000 ppm / 1900 mg/m³

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or face shield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9

Physical & Chemical Properties

Appearance: Dark liquid.

Odor: Mild characteristic odor.

pH: Data not available.

Melting / Freezing point: -114°C (-173°F)

Boiling point: 74-80°C (165.2-176°F)

Flash point: 23°C (85°F) 30% Ethanol

Evaporation rate (Butyl acetate = 1): Ca 2"

Flammability (solid/gas): Data not available.

Explosion limits: Lower / Upper: 3.3% / 19.0%

Vapor pressure (mm Hg): Ca 50 @ 20°C

Vapor density (Air = 1): Ca 1.5

Relative density (water = 1): 0.791 @ 75°C @ 60/60°F

Solubility(wat): Soluble in water.

Section 10

Stability & Reactivity

Chemical stability: Stable

Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition.

Incompatible materials: Strong oxidizers, inorganic acids and halogens.

Hazardous decomposition products: Carbon oxides.

Section 11

Toxicological Information

Acute toxicity: Oral-rat LD50: 7060 mg/kg ; Inhalation-rat LC50: 124.7 mg/4hours [Ethanol]

Skin corrosion/irritation: Skin-rabbit - Slight irritant.

Serious eye damage/irritation: Eyes-rabbit - Severe irritant.

Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenicity: Data not available

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.

IARC classified: Group 3: Not classifiable as to its carcinogenicity to humans. [Isopropanol]

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.

Reproductive toxicity: Data not available

STOT-single exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation may cause dizziness, drowsiness, nausea, vomiting, inability to concentrate and irritation of the throat.

Ingestion: Ingestion causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait and coma.

Skin: Contact with skin causes irritation on prolonged contact.

Eyes: Contact with eyes may cause blindness.

Signs and symptoms of exposure: See Potential health effects above.

Additional information: RTECS #: K0850000 [Ethanol]

Section 12

Ecological Information

Toxicity to fish: Oncorhynchus mykiss (fish, fresh water): LC50 = 11,200 mg/l/24 hours [Ethanol]

Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea): EC50 = 10,800 mg/l/24 hours [Ethanol, 98.8% pure]

Toxicity to algae: Chlorella pyrenoidosa (Algae): EC50 = 9,310 mg/l/growth rate [Ethanol, absolute]

Persistence and degradability: No data available

Biodegradability: No data available

Biocumulative potential: No data available

PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13

Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty containers. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contact with a licensed chemical disposal agency.

Section 14

Transport Information (US DOT / CANADA TDG)

UN/NA number: UN1170

Shipping name: Ethanol solutions

Hazard class: 3

Packing group: III

Exceptions: Limited quantity equal to or less than 5 L

Section 15

Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component

TSCA

CERCLA (RC)

RCRA code

DSL

NDSL

Ethanol

Listed

Not listed

0001

Listed

Not listed

Isopropanol

Listed

Not listed

Not listed

Not listed

Section 16

Other Information

The information contained herein is furnished without warranty of any kind. Employees should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and of correct use of the information. The information is not intended to be used for regulatory purposes. Use of the information for regulatory purposes is the responsibility of the user. The information is not intended to be used for regulatory purposes. Use of the information for regulatory purposes is the responsibility of the user.

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

STOT: Specific Target Organ Toxicity

SE: Single Exposure

RE: Repeated Exposure

ERG: Emergency Response Guidebook

Reportable Quantity: 5,000 lbs (2270 kg)

Marine pollutant: No

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