

SAFETY DATA SHEET

Alcoholic Saffron 6% Solution

Version 1 · issued 18 August 2026

1. IDENTIFICATION**Product Identifiers****Product Name** Alcoholic Saffron 6% Solution**Other Names** Not available.**Product Number(s)** 26093-60, EMS26093-60**CAS Number** Not available.**Recommended use of the chemical and restriction on use**

Laboratory chemicals. Stains

Company Details

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2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

GHS02 GHS02 Flame

Flammable liquids 2 H225 Highly flammable liquid and vapor.

GHS08 Health hazard

Carcinogenicity 1A H350 May cause cancer.

Specific target organ toxicity (single exposure) 2 H371 May cause damage to the central nervous system and the visual organs.

Hazard-determining components of labeling:

Ethyl alcohol

Methyl Alcohol

Label Elements**Flammable • Health hazard****Signal Words** Danger**Hazard Statement(s)** Highly flammable liquid and vapour.

May cause cancer.

May cause damage to the central nervous system and the visual organs.

Precautionary Statement(s)

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 Keep away from any possible contact with water, because of violent reaction and possible flash fire.
 Handle and store contents under inert gas. Protect from moisture.
 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.
 Do not breathe dust/fume/gas/mist/vapours/spray.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Wear protective gloves/protective clothing/eye protection/face protection.

Primary route(s) of entry

important exposure routes are principally those associated with its ethanol solvent: Inhalation and skin contact

Human Health**Inhalation**

Do not breathe dust/fume/gas/mist/vapors/spray.

Ingestion

Not available.

Eyes

Not available.

Skin

(or hair) Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. Brush off loose particles from skin. immerse in cool water/wrap in wet bandages.

Environment

In case of fire: Use CO₂, sand, extinguishing powder for extinction.

Store in a dry place. Store in a closed container.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No.	Content (w/w)	Classification
Ethyl alcohol	64-17-5	65-85%	Mixture
propan-2-ol	67-63-0	5-10%	Mixture
Methyl Alcohol	67-56-1	1-5%	Mixture

4. FIRST AID MEASURES**Ingestion**

If symptoms persist consult doctor.

Inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

Skin Contact

Generally the product does not irritate the skin.

Eye Contact

Rinse opened eye for several minutes under running water.

Other Information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

5. FIREFIGHTING MEASURES**Suitable extinguishing equipment****Fire**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water

HAZCHEM

No further relevant information available.

Special protective equipment and precautions for fire fighters

Mouth respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away.
Environmental precautions	Dilute with plenty of water. Do not allow to enter sewers/surface or ground water.
Methods and materials for containment and clean up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents. Protective Action Criteria for Chemicals PAC-1: 64-17-5 Ethyl alcohol 1,800 ppm 67-63-0 propan-2-ol 400 ppm 67-56-1 Methyl Alcohol 530 ppm PAC-2: 64-17-5 Ethyl alcohol 3300* ppm 67-63-0 propan-2-ol 2000* ppm 67-56-1 Methyl Alcohol 2,100 ppm PAC-3: 64-17-5 Ethyl alcohol 15000* ppm 67-63-0 propan-2-ol 12000** ppm 67-56-1 Methyl Alcohol 7200* ppm

7. HANDLING AND STORAGE

Precautions for safe handling	Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Keep ignition sources away - Do not smoke. Protect from heat. Protect against electrostatic charges.
Conditions for safe storage	Store in a cool location. Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

Material	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³
Ethyl alcohol	1000ppm	1990mg/m ³	-	
propan-2-ol	400ppm	980mg/m ³	500ppm	1225mg/m ³
Methyl Alcohol	200ppm	260mg/m ³	250ppm	325mg/m ³

Engineering controls	Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.
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Personal protective equipment

Eye and face protection

Tightly sealed goggles

Skin protection

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Body protection

Not available.

Respiratory protection

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

9. PHYSICAL AND CHEMICAL PROPERTIES**General information****Appearance**

Yellow liquid

Odour

Alcohol-like

pH

Mixture is non-polar/aprotic.

Vapour Pressure

at 20 °C (68 °F): 59 hPa (44.3 mm Hg)

Densityat 20 °C (68 °F): 0.7906 g/cm³ (6.59756 lbs/gal)**Boiling Point**

78 °C (172.4 °F)

Melting Point

Undetermined.

Solubility

Fully miscible.

Specific Gravity of Density

Not available.

Flash Point

14°C

Flammable (Explosive) Limits

Lower: 3.3Vol%

Upper: 19Vol%

Ignition Temperature

425°C

Formula

Not available.

10. STABILITY AND REACTIVITY**Reactivity**

Not further relevant information available.

Chemical stability

No decomposition if used according to specifications.

Possibility of hazardous reactions

Contact with water releases flammable gases.

Conditions to avoid

No further relevant information available.

Incompatible materials

No further relevant information available.

11. TOXICOLOGICAL INFORMATION**Acute effects**

Methyl Alcohol

Oral LD50 5628 mg/kg (rat)

Dermal LD50 15800 mg/kg (rabbit)

Eye contact

No irritating effect.

Skin contact

No irritant effect.

Ingestion

Not available.

Inhalation

No sensitising effects known.

Toxicity and irritation

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

· Interactive effects No interactive effects between components are known.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

64-17-5 Ethyl alcohol 1

67-63-0 propan-2-ol 3

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety Health Administration)

None of the ingredients is listed.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

No further relevant information available.

Persistence and degradability

No further relevant information available.

Bioaccumulative potential

No further relevant information available.

Other adverse effects

Water hazard class 1: hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS**General information**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14. TRANSPORT INFORMATION**ADG label required****Class 3 Flammable liquid****HAZCHEM**

No further relevant information available.

UN Number

UN1987

Proper shipping name

UN proper shipping name

· DOT Alcohols, n.o.s. (Ethanol, Isopropanol)

· ADR 1987 ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL), ISOPROPANOL (ISOPROPYL ALCOHOL))

· IMDG ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL), ISOPROPANOL (ISOPROPYL ALCOHOL))

· IATA ALCOHOLS, N.O.S. (ETHANOL, ISOPROPANOL (ISOPROPYL ALCOHOL))

Transport hazard class

Class 3 Flammable liquids.

Packing group

II

Environmental hazard

Not applicable.

Special precautions for users

Warning: Flammable liquids.

Hazard identification number (Kemler code): 30

EMS Number: F-E,S-D

Stowage Category: A

Additional information

Limited quantities (LQ): 1L

Excepted quantities (EQ): Code: E2

Maximum net quantity per inner packaging: 30mL

Maximum net quantity per outer packaging: 500mL

Transport category: 2

Tunnel restriction code: D/E

15. REGULATORY INFORMATION**Poisons Schedule Number**

67-56-1 Methyl Alcohol S5, S6

Other Information

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION**SDS preparation date**

18 August 2026

Comments

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

References

Electron Microscopy Science SDS "Alcoholic Saffron, 6%". 13/09/2026.
<https://www.emsdiasum.com/docs/technical/msds/26093-60.pdf>

This Safety Data Sheet (SDS) has been prepared in compliance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice February 2016. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this SDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.

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