



SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Product Name: Mineralised Methylated Spirits - Purple
- UFI: Not applicable

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

- Use of the substance/mixture: Laboratory chemical

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Ultrapure Laboratories
- Address of Supplier: Corroy
Ballina
Co. Mayo
Ireland
- Telephone: +353 96 38566
- Responsible Person: John Dempsey
- Email: sales@ultrapurelabs.ie

1.4 Emergency telephone number

- Emergency Telephone: The National Poisons Information Centre (NPIC)
Public: +353 (0) 1 809 2166 (7 days a week, 8am- 10pm)
Healthcare professionals: +353 (0) 1 809 2566 (24 h service)
See also section 4 "First aid measures"
Company Number: +353 96 38566 (5 days a week 8am - 4pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- CLP: Flam. Liq. 2, Eye Irrit. 2

2.2 Label elements



GHS02



GHS07

- Signal Word: Danger

2.2.1 Hazard statements

H225 - Highly flammable liquid and vapour.

H319 - Causes serious eye irritation.

2.2.2 Precautionary statements

P403+P235 - Store in a well-ventilated place. Keep cool.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P370+P378 - In case of fire: Use

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

2.3 Other hazards

- None known

SECTION 3: Composition/information on ingredients

3.1 Substances

- Not applicable

3.2 Mixtures

3.2.1 ethanol; ethyl alcohol

CAS Number:	64-17-5
EC Number:	200-578-6
Concentration:	69 - 98%
Specific Concentration Limits:	Not applicable
M factor:	Not applicable
Acute toxicity estimate:	Not applicable
Categories:	Flam. Liq. 2, Eye Irrit. 2
Symbols:	GHS02
H Statements:	H225

3.2.2 propan-2-ol; isopropyl alcohol; isopropanol

CAS Number:	67-63-0
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EC Number:	200-661-7
Concentration:	1%
Specific Concentration Limits:	Not applicable
M factor:	Not applicable
Acute toxicity estimate:	Not applicable
Categories:	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3
Symbols:	GHS02;GHS07
H Statements:	H225;H336;H319
REACH Registration Number:	01-2119457558-25-0000

3.2.3 butanone; ethyl methyl ketone

CAS Number:	78-93-3
EC Number:	201-159-0
Concentration:	0.96 - 0.97%
Specific Concentration Limits:	Not applicable
M factor:	Not applicable
Acute toxicity estimate:	Not applicable
Categories:	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3
Symbols:	GHS02;GHS07
H Statements:	H225;H336;H319;EUH066
REACH Registration Number:	01-2119457290-43-0018

3.2.4 Denatonium benzoate

CAS Number:	3734-33-6
EC Number:	223-095-2
Concentration:	0%
Specific Concentration Limits:	Not applicable
M factor:	Not applicable
Acute toxicity estimate:	Not applicable
Categories:	Not applicable
Symbols:	GHS05, GHS07
H Statements:	H302, H318, H332

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

- General first aid, rest, warmth and fresh air.
- Do not give victim anything to drink if they are unconscious.
- Get medical attention if any discomfort continues.

Inhalation

- If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly.
- If unconscious place in recovery position and seek medical advice.

Ingestion

- Do NOT induce vomiting unless directed to do so by medical personnel. - Rinse mouth with water (only if the person is conscious) - Get medical attention if any discomfort continues.

Skin contact

- If this product contacts the skin, immediately flush the affected area with large amount of water for at least fifteen (15) minutes.
- If the product penetrates the clothing, promptly remove the contaminated clothing or shoes, and flush the affected area as described.
- Seek medical attention if irritation persists

Eye contact

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Seek medical attention if irritation persists

4.2 Most important symptoms and effects, both acute and delayed**General information**

- The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

- No specific symptoms noted.

Ingestion

- No specific symptoms noted.

Skin contact

- No specific symptoms noted.

Eye contact

- Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed**Notes to the physician**

- Treat symptomatically
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SECTION 5: Firefighting measures**5.1 Extinguishing media****Extinguishing media**

- Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable extinguishing media
- High volume water jet.

5.2 Special hazards arising from the substance or mixture**Hazardous combustion products**

- Combustion may lead to the release of toxic gases/vapours or fumes of carbon monoxide and carbon dioxide.

Unusual fire & explosion hazards

- Solvent vapours may form explosive mixtures with air.
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Specific hazards

- Highly flammable liquid and vapour.

5.3 Advice for firefighters

Special firefighting procedures

- Keep up-wind to avoid fumes.
- Shut down all possible sources of ignition.
- Keep all nearby vessels cool with water spray, but ensure that the water does not make contact with the liquid burning fuel.
- Extinguish fire with foam ensuring that foam is not broken by firefighters and the ground is covered with foam.
- Apply foam to potential fire hazards.
- Do not use water jets
- Spray or fog nozzles may be used.

Protective equipment for firefighters

- Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
 - Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

- Wear protective clothing as per section 8
- Follow safe handling advice and personal protective equipment recommendations for normal use of product.
- Ensure adequate ventilation
- Avoid breathing vapours, mist or gas

For emergency responders

- Follow safe handling advice and personal protective equipment recommendations for normal use of product.
- Fire-fighters will be equipped with suitable personal protective equipment.

6.2 Environmental precautions

- Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.
- Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.
- Do not discharge into drains or the environment, dispose to an authorised waste collection point

6.3 Methods and material for containment and cleaning up

Spill clean-up methods

- Absorb in vermiculite, dry sand or earth and place into sealed, labelled containers for disposal.
- Wash thoroughly after dealing with spillage
- Keep combustibles away from spilled material. Eliminate all ignition sources.

6.4 Reference to other sections

- See Section 1 for emergency contact. See Section 8 for personal protection equipment (PPE). See Section 13 for waste disposal
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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling

- Avoid spilling, skin and eye contact.
- Keep away from heat and sources of ignition
- Ventilate well, avoid breathing vapours.
- Use approved respirator if air contamination is above accepted level.
- Use explosion-proof [electrical/ventilating/lighting/
- Read and follow manufacturer's recommendations.
- Do not wear contact lenses when working with this material
- Static electricity and formation of sparks must be prevented

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions

- Flammable/combustible - Keep away from oxidisers, heat and flames.
- Store in tightly closed original container in a cool, dry and well-ventilated place.
- Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class

- Flammable liquid storage.

7.3 Specific end use(s)

Specific end use(s)

- The identified uses for this product are detailed in Section 1.2.

Usage description

- Use only according to directions.
 - Replace and tighten cap after use.
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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 ethanol; ethyl alcohol

WEL (long term): 1920 mg/m³ (IE)

8.1.2 propan-2-ol; isopropyl alcohol; isopropanol

WEL (long term): 200 mg/m³ (IE)

WEL (short term): 400 mg/m³ (IE)

8.1.3 butanone; ethyl methyl ketone

WEL (long term): 600 mg/m³ (IE)

WEL (short term): 900 mg/m³ (IE)

8.2 Exposure controls

Protective equipment



Boots



Gloves



Goggles

Engineering measures

- Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment

- In case of inadequate ventilation use suitable respirator.
- Use respirators and components tested and approved under appropriate government standards such as CEN (EU). If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand protection

- Gloves must be selected according to the application and duration of use at the workstation.
- Consult manufacturer for specific advice on material.
- Suggested material: Butyl-rubber.
- Minimum layer thickness: 0.3 mm.
- Breakthrough time: >480 minutes.

Eye protection

- Wear safety goggles or face shield to prevent any possibility of eye contact.
- Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

Other protection

- Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

- Wash hands at the end of each work shift and before eating, smoking and using the toilet
- When using do not eat, drink or smoke.
- Take off immediately all contaminated clothing.
- Avoid contact with skin, eyes and clothing.

Process conditions

- Use only according to directions.
- Ensure that eye flushing systems and safety showers are located close by in the work place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state: Liquid
- Colour: Purple
- Odour: Characteristic odour
- Melting point/Range: -117.00 °C
- Boiling Point/Range: 78°C
- Flammability: Flammable Liquid
- pH: Neutral.

- Solubility in water: A large number of reliable handbook sources consistently report that ethanol is fully miscible in water. (literature data)
- Density: 0.789 (literature data)
- Flashpoint: 12°C
- Lower Flammability Limit: The lower flammability of pure ethanol was determined to be 3.7%. (literature data)
- Vapour pressure: 57.26 hPa at 19.6 °C
- Partition Coefficient (n-Octanol/Water): -0.35 at 24°C
- Autoignition Temperature: 368.8 @ 7.4°C
- Viscosity: 1.17 mPa.s at 20.0 °C

9.2 Other information

- Molecular Weight: Not applicable as the product is a mixture.
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SECTION 10: Stability and reactivity

10.1 Reactivity

- Reacts with oxidizing substances

10.2 Chemical stability

Stability

- Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

Hazardous reactions

- For information on hazardous reaction see section 10.1.

10.4 Conditions to avoid

- Avoid heat, flames and other sources of ignition.
- Avoid contact with oxidising substances
- Avoid contact with reducing agents

10.5 Incompatible materials

Materials to avoid

- Flammable/combustible - Keep away from oxidisers, heat and flames.

10.6 Hazardous decomposition products

- Combustion will generate oxides of carbon.
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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 Acute toxicity

- Estimated LD₅₀ (oral) (ATE) : >2000 mg/kg
 - Estimated LD₅₀ (dermal) (ATE) : >4000 mg/kg
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Estimated LD₅₀ (inhalational) (ATE): >20 mg/l/4hr (gas/vapour)

11.1.2 Skin corrosion/irritation

The product is not classified as a skin corrosion/irritation hazard.

11.1.3 Serious eye damage/irritation

Causes serious eye irritation.

11.1.4 Respiratory or skin sensitisation

The product is not classified as a respiratory hazard.

The product is not classified as a skin sensitisation hazard.

11.1.5 Germ cell mutagenicity

The product is not classified as a mutagen.

11.1.6 Carcinogenicity

No evidence of carcinogenic effects

11.1.7 Reproductive toxicity

The product is not classified as a reproductive hazard.

11.1.8 STOT (specific target organ toxicity) - single exposure

The product is classified as a single exposure specific target organ toxin.

11.1.9 STOT (specific target organ toxicity) - repeated exposure

The product is not classified as a repeat exposure specific target organ toxin.

11.1.10 Aspiration hazard

The product is not classified as an aspiration hazard.

Routes of entry

Eyes, skin, ingestion or inhalation.

Target organs

Eyes, skin, digestive system, respiratory system.

11.2 Information on other hazards

- No information available

SECTION 12: Ecological information

12.1 Toxicity

- No information available as testing has not been completed.

Eco toxicity

- The product is not classified as environmentally hazardous.

- However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Eco toxicological information

- Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

12.2 Persistence and degradability

Degradability

- The degradability of the product has not been stated.

Biological oxygen demand

- No information available as testing has not been completed.

Chemical oxygen demand

- No information available as testing has not been completed.

12.3 Bio accumulative potential

Bio accumulative potential

- No information available

Bioaccumulation factor

- No information available as testing has not been completed.

Partition coefficient; n-Octanol/Water

- The logKow for ethanol is -0.35 at 24°C. (literature data)

12.4 Mobility in soil

- miscible with water

12.5 Results of PBT and vPvB assessment

- The product does not contain any PBT or vPvB substances.

12.6 Endocrine disrupting properties

12.7 Other adverse effects

- None known
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SECTION 13: Disposal considerations

Waste management

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Do not discharge waste into drains without treatment.

13.1 Waste treatment methods

- Dispose of contents/container to an authorised waste collection point
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SECTION 14: Transport information

Transport labels



Flammable Liquid

14.1 UN number or ID number

- UN No.: 1170
- ADR UN No.: 1170
- IMDG UN No.: 1170
- IATA UN No.: 1170

14.2 UN proper shipping name

- Proper Shipping Name: ETHANOL (ETHYL ALCOHOL) SOLUTION

14.3 Transport hazard class(es)

- Hazard Class: 3
- ADR Hazard Class: 3
- IMDG Hazard Class: 3

14.4 Packing group

- Packing Group: II
- ADR Packing Group: II
- IMDG Packing Group.: II
- ICAO Packing Group: II

14.5 Environmental hazards

- ADR: No
- IMDG: No
- ICAO: No

14.6 Special precautions for user

- Contains: Ethanol; ethyl alcohol
propan-2-ol; isopropyl alcohol; isopropanol
- EMS: F-E, S-D
- Emergency action code: A3 A58 A180
- Hazard no. (ADR): 33
- Tunnel Code: (D/E)

14.7 Maritime transport in bulk according to IMO instruments

- Not applicable
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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

- This Safety Data Sheet is provided in compliance with the EC Regulations 1907/2006, 1272/2008, 2015/830 and 2020/878
 - Refer to current CLP Regulations
 - Refer to current ADR Regulations
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Approved code of practice

- Workplace Exposure Limits Guidance Note EH40/2005.
- 2021 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)

15.2 Chemical safety assessment

- No chemical safety assessment has been carried out.
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SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet: - EUH066: Repeated exposure may cause skin dryness or cracking. H225: Highly flammable liquid and vapour. H302: Harmful if swallowed. H318: Causes serious eye damage. H319: Causes serious eye irritation. H332: Harmful if inhaled. H336: May cause drowsiness or dizziness. GHS05: corrosive. GHS07: exclamation mark.

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