

Section 1. IDENTIFICATION

Product identifier: Zexa 70% Surface Sanitiser RTU (Ethanol based)

Product Code: 2-602

Description /Use: Surface Sanitiser for porous and non-porous surfaces to air dry

Business name: Zexa Chemicals

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NSW 2281 Australia

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Email: sales@zexa.com.au

Website: www.zexa.com.au

Use only according to directions on product spec sheet and label.

Other Means of Identification:

Shipping Name Ethanol Solution

UN Number UN1170

Other Information

The Surface Sanitiser is manufactured using only the World Health Organisation (WHO) recommended formulation with no deviations in ingredients or percentages.

The compounder does not add other active or inactive ingredients. Different or additional ingredients may impact the quality and potency of the product.

This is a personal care product. This SDS contains useful information for the safe handling and proper use of the product. Consumers: Refer to the package insert or product label for appropriate consumer specific information about this product when used according to manufacturer's directions.

This product has been made under the Therapeutic Goods (Excluded Goods – Hand Sanitisers) Determination 2020. It is allowed for use in both healthcare and consumer use settings and meets the requirements under this legislation.

Poisons Information Centre Contact Number: 13 11 26

Section 2. HAZARDS IDENTIFICATION

GHS Classification:

| | |
|-----------------------------------|---------------------|
| Flammable Liquids | Category 2 - (H225) |
| Serious Eye Damage Eye Irritation | Category 2 - (319) |

Label Elements:

Flame
Exclamation mark



Signal Word:

Danger

Hazard Statements:

H225 – Highly Flammable liquid and vapour

H319 – Causes serious eye irritation

Precautionary Statements – Prevention

Wash face, hands, and any exposed skin thoroughly after excessive handling
 Wear protective gloves / protective clothing/eye protection/face protection
 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No Smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge
 Use explosion-proof electrical /ventilating / lighting equipment

Precautionary Statements – Response

IF IN EYES: Rinse cautiously with water for several minutes. Continue rinsing if irritation occurs seek medical advice/attention
 IF ON SKIN (or hair): Remove / take off immediately all contaminated clothing. Rinse skin with water/shower
 In Case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish

Precautionary Statements – Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements – Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards which do not result in classification:

May be harmful if inhaled
 Causes mild skin irritation
 May cause drowsiness or dizziness

Section 3. COMPOSITION INFORMATION

| Chemical Name | CAS No | % |
|-------------------|-----------|--------|
| Ethanol | 64-17-5 | 70 |
| Water | 7732 18 5 | 18 425 |
| Glycerol | 56-81-5 | 145 |
| Hydrogen Peroxide | 7722-84-1 | 0 125 |

Section 4. FIRST AID

Description of first aid measures:

Emergency Telephone Number: Poisons Information Centre 13 11 26

Inhalation: Remove to fresh air

Ingestion: Do NOT induce vomiting. Give plenty of water to drink, clean mouth. Seek medical attention.

Skin Contact: Remove contaminated clothing and laundry. Wash affected skin with water.

Eye Contact: Hold the eyes open and flush with water for at least 15 minutes. Seek medical attention

First Aid Facilities: This Safety Data Sheet should be provided to the attending medical doctor. Normal washroom facilities are generally suitable. It is recommended that an eyewash station be available and ready for use. Advice to Doctor: treat symptomatically.

Self-protection of the first aider: Remove all sources of ignition. Ensure that medical personnel are aware of the material (s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid excessive contact with skin, eyes, or clothing.

Most important symptoms and effects, both acute and delayed:

Symptoms: May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness and irritation.

Section 5. FIRE FIGHTING MEASURES

Extinguishing Media: Dry chemical, Carbon dioxide (CO₂), Water Spray, Alcohol resistant foam

Specific Hazards arising from the chemical: Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed or in accordance with local regulations

Hazardous Combustion Products: If this product is involved in a fire, the water contained in it may evaporate, leaving a residue which may combust. During combustion, the residue may produce carbon monoxide as well as other unidentifiable organic compounds.

Protective Equipment: Fire fighters are to wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Hazchem Code: *2YE

Section 6. ACCIDENTAL RELEASE MEASURES**Personal Precautions**

Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes, or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Other Information

Ventilate the area. Refer to protective measures listed in Sections 7 and 8

Environmental Precautions

Refer to protective measures in Sections 7 and 8. Prevent further leakage or spillage if safe to do so

Spills & DisposalMethod for Containment:

Stop leak if you can do it without risk. Wear appropriate protective equipment. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run off water. Keep out of drains, sewers, ditches, and waterways. Absorb with earth, sand or other non-combustible material and transfer containers for later disposal.

Method for Cleaning Up:

Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Precautions to prevent Secondary Hazards:

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7. HANDLING AND STORAGE

Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No Smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire, or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use accordingly to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid excessive contact with skin, eyes, or clothing. Do not eat, drink, or smoke when using this product.

Store in plastic containers in a clean, dry, cool, well ventilated place away from foodstuffs. Keep containers sealed when not in use. It is recommended that this product be dispensed through approved dispensers.

Section 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters:

Exposure Limits

| Chemical Name | Australia | ACGIH TLV |
|-----------------------------|------------------------------------|---------------|
| Ethanol 64-17-5 | 1000 ppm 1880 mg/m ³ | STEL: 1000ppm |
| Glycerol 56-81-5 | 10mg/m ³ | - |
| Hydrogen Peroxide 7722-84-1 | 1ppm 1.4mg/m ³ | TWA:1 ppm |

Appropriate engineering controls:

Showers

Eyewash stations

Ventilation systems

Not required under normal conditions of use. Wear chemical goggles if handling large amounts and if splashing is likely to occur. Eng. Controls Natural ventilation adequate under normal conditions of use.

Wear suitable protective clothing and gloves if handling large amounts

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---------------------------------|----------|----------------------------|--------------------|
| Appearance: | Liquid | Colour: | Purple |
| Flashpoint (°C): | 17.5 | Boiling Point (°C): | 78.3 |
| Flammability Limits (%): | NA | Vapour: | NA |
| Water Solubility: | Complete | Specific Gravity: | 1.03 |
| pH: | NA | Odour: | Alcohol and Citrus |

| | | |
|---|---------------------------|------------|
| Boiling point / boiling range | 78.3 °C | |
| Flash point | 17.5 °C | |
| Evaporation rate | No data available | None known |
| Flammability (solid, gas) | No data available | None known |
| Flammability Limit in Air | | None known |
| Upper flammability or explosive limits | No data available | |
| Lower flammability or explosive limits | No data available | |
| Vapour pressure | No data available | None known |
| Vapour density | No data available | None known |
| Relative density | No data available | None known |
| Water solubility | No data available | None known |
| Solubility(ies) | No data available | None known |
| Partition coefficient | No data available | None known |
| Autoignition temperature | No data available | None known |
| Decomposition temperature | No data available | None known |
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | No data available | None known |
| Explosive properties | No information available. | |
| Oxidising properties | No information available. | |
| <u>Other information</u> | | |
| Softening point | No information available | |
| Molecular weight | No information available | |
| VOC Content (%) | No information available | |
| Liquid Density | No information available | |
| Bulk density | No information available | |

| |
|---|
| Section 10. STABILITY AND REACTIVITY |
|---|

| | |
|----------------------------------|--|
| Reactivity: | None under normal use conditions |
| Stability: | Stable under normal conditions |
| Explosion: | Sensitive to static discharge |
| Hazardous Polymerisation: | Will not occur under normal conditions |
| Materials to Avoid: | None known based on information supplied |
| Conditions to Avoid: | Heat, flames and sparks |

Section 11. TOXICOLOGY INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.

Information on Route of Exposure Acute Toxicity:

| | |
|--|---|
| Ingestion: | May cause nausea, vomiting, diarrhoea, gastrointestinal irritation |
| Eye Contact: | Causes serious eye irritation (based on components) May cause redness, itching and pain. |
| Skin Contact: | May cause mild skin irritation and redness |
| Inhalation: | In large amounts can cause headache, nausea and mucous membrane irritation |
| Skin Corrosion/Irritation: | May cause skin irritation |
| Serious Eye Damage/Irritation: | May cause eye irritation |
| Respiratory or Skin Sensitisation: | No Information available |
| Germ Cell Mutagenicity: | No Information available |
| Carcinogenicity: | No Information available |
| Reproductive Toxicity: | No Information available |
| Specific Target Organ Toxicity (STOT) – Single Exposure: | No Information available |
| Specific Target Organ Toxicity (STOT) – Repeated Exposure: | No Information available |
| Aspiration Hazard: | No Information available |
| Immediate, Delayed or Chronic Health Effects From Exposure: | None known |

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-------------------|---------------------|-----------------------|-----------------------------------|
| Ethanol | = 7060 mg/kg (Rat) | - | = 124.7 mg/L (Rat) 4h |
| Water | >90 mL/kg (Rat) | - | |
| Glycerol | = 12600 mg/kg (Rat) | >10g/kg (Rabbit) | >570 mg/m ³ (Rat) 1h |
| Hydrogen Peroxide | = 1518 mg/kg (Rat) | = 9200 mg/kg (Rabbit) | = 2000 mg/m ³ (Rat) 4h |

Section 12. ECOLOGICAL INFORMATION

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|-------------------|----------------------|---|----------------------------|---|
| Ethanol | - | LC50: 12.0 - 16.0mL/L (96h, Oncorhynchus mykiss) LC50: >100mg/L (96h, Pimephales promelas) LC50: 13400 - 15100mg/L (96h, Pimephales promelas) | - | LC50: 9268 - 14221mg/L (48h, Daphnia magna) EC50: =2mg/L (48h, Daphnia magna) |
| Glycerol | - | LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss) | - | - |
| Hydrogen peroxide | - | LC50: 18 - 56mg/L (96h, Lepomis macrochirus) LC50: =16.4mg/L (96h, Pimephales promelas) LC50: 10.0 - 32.0mg/L (96h, Oncorhynchus mykiss) | - | EC50: 18 - 32mg/L (48h, Daphnia magna) |

Ecotoxicity: No product data available.

Persistence and Degradability: No Information available.

Bio accumulative Potential:

Mobility in Soil: No Information available

Component Information

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| Ethanol | -0.32 |
| Glycerol | -1.76 |

Section 13. DISPOSAL CONSIDERATIONS

Disposal methods: Refer to Waste Management Authority. Dispose of contents/container in accordance with Local/regional/national/international regulations. Should not be released into the environment.

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

Section 14. TRANSPORT INFORMATION

ADG

UN number UN1170
Proper shipping name ETHANOL SOLUTION
Hazard class 3
Packing group II
Special Provisions 144
Description UN1170, ETHANOL SOLUTION, 3, II
Hazchem code •2YE

IATA

UN number UN1170
UN proper shipping name Ethanol solution
Transport hazard class(es) 3
Packing group II
ERG Code 3L
Special Provisions A180, A3, A58
Description UN1170, Ethanol solution, 3, II

IMDG

UN number UN1170
UN proper shipping name ETHANOL SOLUTION
Transport hazard class(es) 3
Packing group II
EmS-No F-E, S-D
Special Provisions 144
Description UN1170, ETHANOL SOLUTION, 3, II, (17.5°C C.C.)

Section 15. REGULATORY INFORMATION

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

National regulations - Australia

See section 8 for national exposure control parameters

Major hazard (accident/incident planning) regulation

Verify that licence requirements are met

Hazardous Chemical

Threshold quantity (T)

| | |
|---|--------|
| Liquids that meet the criteria for Class 3 Packing Group II or III | 50,000 |
| Liquids with flash points <61°C kept above their boiling points at ambient conditions | 200 |

National pollutant Inventory

Subject to reporting requirement

ETHANOL 64-17-5 10 tonnes/yr Threshold Category 1

International Inventories

| | |
|---------------|--|
| TSCA | Contact supplier for inventory compliance status |
| DSL/NDSL | Contact supplier for inventory compliance status |
| E NECS/EL NCS | Contact supplier for inventory compliance status |
| ENCS | Contact supplier for inventory compliance status |
| ECSC | Contact supplier for inventory compliance status |
| KECL | Contact supplier for inventory compliance status |
| PICCS | Contact supplier for inventory compliance status |
| AICS | Contact supplier for inventory compliance status |

Legend:

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- E|NECS/EL|NCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- ECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AICS** - Australian Inventory of Chemical Substances

Section 16. OTHER INFORMATION

Date of issue: 25/06/2020

Initial Release

This MSDS summarizes at the date of issue our best knowledge of the health and safety hazard information of this product, and how to safely handle and use this product in the workplace. Since the supplier cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this supplier

Abbreviations and acronyms:

ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail.

AICS: Australian Inventory of Chemical Substances.

CAS Number: Chemical Abstracts Service Registry Number.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals.

HAZCHEM: An emergency action code of numbers and letters which gives information to emergency services.

HSIS: Hazardous Substances Information System.

IARC: International Agency for Research on Cancer.

NOHSC: National Occupational Health and Safety Commission.

NTP: National Toxicology Program (USA).

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit.

SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons.

TWA: Time Weighted Average.

UN Number: United Nations Number.

Literature references:

- Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice (Safe Work Australia)
- GHS Hazardous Chemical Information List (Safe Work Australia)
- Guidance on the Classification of Hazardous Chemicals under the WHS Regulations. Safe Work Australia.
- Global Harmonized System of Classification and Labelling of Chemicals • “Australian Exposure Standards”
- Australian Code for The Transport Of Dangerous Goods By Road and Rail
- Standard for the Uniform Scheduling of Medicines and Poisons
- Safety Data Sheets – individual raw materials – Suppliers.
- Approved Criteria for Classifying Hazardous Substances NOHSC:1008(1999)]
- Hazardous Substance Information System – National Worksafe Data Base.
- Hazardous Chemical Information System (HCIS).
- Implementation of the globally harmonised system of classification and labelling of chemicals (GHS).
- ECHA (European Chemicals Agency)

End