SURE SHIELD SURFACE CLEANER DISINFECTANT 80% - SAFETY DATA SHEET

Section 1. IDENTIFICATION

Product identifier: Sure Shield Surface Cleaner Disinfectant 80% Ethanol RTU **Product Code: 2-400**

Description /Use: Surface Cleaner as a spray and wipe clean for porous and non-porous surfaces
Business name: Zexa Chemicals
Address: 28 Strathmore Road Caves Beach
NSW 2281 Australia
Phone: +61 2 4970 7777 **Fax:** +61 2 9475 4880
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	80
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 launder. 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 (C02), 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

Peresonal 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 & Disposal

Method 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:**	Yellow
Flashpoint (ºC):	17.5	**Boiling Point (ºC):**	78.3
Flammability Limits (%):	NA	**Vapour:**	NA
Water Solubility:	Complete	**Specific Gravity:**	1.03
pH:	NA	**Odour:**	Alcohol with 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.	

Other information	
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	ETHANC L 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^{0}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
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - 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