SAFETY DATA SHEET

Disclaimer:
Zexa Pty Ltd provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

Product: HAND SANITISER

HAZARDOUS according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals

SIGNAL WORD: **DANGER**

☎ Emergency Response No:

Hazards

H225	**Highly flammable liquid and vapour**
H319	**Causes serious eye irritation**

1 IDENTIFICATION

IDENTIFICATION

Product Code:	2-915-05000
Product Name:	Zexa HAND SANITISER Gel 80% Apple Smash
Other Names:	Not applicable
Product Use:	Alcohol Hand sanitiser
Restrictions on use:	Use as Directed

COMPANY DETAILS

Company:	Zexa Chemicals
Address:	28 Strathmore Road, Caves Beach NSW 2281
Telephone Number:	+61 2 4970 7777
Facsimile Number:	+61 2 9475 4880

Other Information: This information summarises our best knowledge on the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

2 HAZARD IDENTIFICATION

Date Issued: August 2020

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HAZARDOUS according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals
DANGEROUS GOODS as classified by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail

Classification of the substance or mixture:

Flammable Liquid	Category 2
Eye Damage/Irritation	Category 2A

SIGNALWORD: **DANGER**

Hazard Statements
Hazards

H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation

Precautionary statements
General precautionary statements

P102	Keep out of reach of Children

Prevention precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233	Keep container tightly closed
P243	Take precautionary measures against static discharge
P280	Wear protective gloves/protective clothing/eye protection/face protection
P264	Wash hands thoroughly after handling.

Response precautionary statements

P370+P378	In case of fire: Use foam, water, spray, fog for extinction.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P337+P313	IF eye irritation persists: Get medical advice/attention.

Storage precautionary statements

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

Disposal precautionary statements

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Poisons Schedule (SUSMP): 5

3 COMPOSITION

Ingredients

Chemical Entity	CAS Number	Proportion $^{v}/_{v}$	Risk Phrases
Ethanol	[64-17-5]	80%	H225, H319
Hydrogen peroxide	[124-43-6]	0.125%	H272 H302+332 H315 H318 H335 H401
Glycerine	[56 81 5}	1.45%	
Water	[7732-18-5]	10-30%	
Ingredients determined to be non-hazardous		balance	

4 FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	Rinse mouth with water. Give water to drink. Do NOT induce vomiting. Seek medical attention immediately.
Eye	Immediately flush eyes with plenty of water for 15 minutes, while holding eyelids open. Seek medical attention immediately.
Skin	Remove contaminated clothing and shoes after wetting with water. Wash affected area with soap and plenty of water. Seek medical attention if required. For burns, immerse affected area in cold water to 10-15 minutes. Bandage lightly with a sterile dressing. Seek medical attention if required.
Inhaled	Remove victim from exposure to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.

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Advice to Doctor Treat symptomatically based on individual reactions of patient and judgement of doctor.

Medical Conditions Aggravated by Exposure
Low to moderate toxicity: Irritant. This product has the potential to cause adverse health effects with chronic overexposure. Chronic ingestion may result in cirrhosis of the liver. Over exposure may cause central nervous system depression.

5 FIRE FIGHTING MEASURES

Flammability Conditions Product is a flammable liquid, Explosive Vapour.
Extinguishing Media In case of fire, appropriate extinguishing media include water fog or foam.
Use water fog to cool intact containers and nearby storage areas.
Hazardous Products of Combustion Flammable liquid Vapours are heavier than air and may travel to an ignition source and flash back. Vapours can spread along the ground and collect in low or confined areas. Vapours form explosive mixtures with air. Toxic gases may be evolved when heated to decomposition, including carbon oxides and hydrocarbons.
Personal Protective Equipment Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots and gloves). Clear fire area of all nonemergency personnel. Stay upwind. Keep out of low areas where gases or fumes can accumulate. Do not use direct water stream. Eliminate ignition sources.

Flash Point	18 °C
Lower Explosion Limit	3.3 %
Upper Explosion Limit	19.0 %
Auto Ignition Temperature	No Data Available
Hazchem Code	3[Y]E

6 ACCIDENTAL RELEASE MEASURES

General Response Procedure
Personnel involved in the clean-up should wear full protective clothing.
Evacuate all unnecessary personnel. Eliminate all sources of ignition. Increase ventilation. Avoid walking through spilled product as it may be slippery. Stop leak if safe to do so. Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental
Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment.
Clean-Up Procedures
Soak up spilled product using absorbent non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated collect material, transfer to suitable, labelled, dry chemical-waste containers and dispose of promptly as hazardous waste.

7 HANDLING AND STORAGE

Precautions for Safe Handling
Do not use this product for any application other than that outlined on the label or technical bulletin. Any non-intended or non-authorised use of this product may result in personal injury or damage to equipment. Store product in original container.
Conditions for Safe Storage
Store in a cool, dry, well ventilated area away from direct sunlight, incompatible materials and sources of ignition. Keep container tightly sealed.

8 EXPOSURE CONTROL / PERSONAL PROTECTION

General No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC), however, the following information on constituents is:
ETHANOL: ES - TWA: 1000ppm (1880mg/m^3) WES - TWA : 1000 ppm (1880mg/m^3)
NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.

Exposure Limits	No Data Available
Biological Limit	No information available on biological limit values for this product.
Engineering Measures	Not required
Personal Protection Equipment	
RESPIRATOR:	Not required with normal use
EYES:	Avoid splashing into eyes during use
HANDS:	Not required
CLOTHING:	Not required
Work Hygienic Practices	No Data Available

9 PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	Clear lime green viscous gel.
Boiling Point	80-100ºC
Odour	Sweet Fruit/Alcoholic
Freezing Point	Not available
pH	6.0
Solubility	Moderately soluble in water.
Specific Gravity	0.9
Flash Point	18ºC (ASTM D6450)
Vapour Pressure	Not Available.
Upper and Lower Flammability limits (in air)	Not Available.
Vapour Density	Not Available.
Ignition Temperature	Not Available.

10 STABILITY AND REACTIVITY

Chemical Stability Product is stable under directed conditions of use, storage and temperature. Flammable liquid.

Conditions to Avoid Avoid excessive heat, direct sunlight, moisture, freezing, static charges and high temperatures.

Materials to Avoid Incompatible materials include oxidizing agents, acids, alkalis, heat and ignition sources.

Hazardous Decomposition Products Toxic gases may be evolved when heated to decomposition, including carbon oxides and hydrocarbons.

Hazardous Polymerisation No Data Available

11 TOXICOLOGICAL INFORMATION

General Information

ETHANOL:

Oral LD_{50} Rat : 3450mg/Kg Inhalation LC_{50} Rat : 2000ppm/10 hours

Eye Irritant Irritating to eyes. Exposure may result in lacrimation, irritation, pain, and redness.

Ingestion Harmful if swallowed. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain, diarrhoea, headache. dizziness, and drowsiness with large doses. Liver damage may occur with high level of chronic ingestion.

Inhalation Harmful if inhaled. Irritating to respiratory system. Inhalation may cause irritation to the respiratory system, nose and throat irritation with coughing and headache. Over exposure may result in nausea, dizziness, and drowsiness.

Skin Irritant May be irritating to skin. Prolonged contact may result in drying and defatting of the skin, rash and dermatitis. Toxic effects may result from skin absorption.

Carcinogen Category 0

12 ECOLOGICAL INFORMATION

Ecotoxicity

Ethanol: If spilled on soil, ethanol will either evaporate or leach into the ground due to the relatively high vapour pressure and low absorption in soil. It will biodegrade, probably to acetic acid and formaldehyde.

Ethanol will volatise from water and biodegrade, and is not expected to bio-concentrate.

It will photodegrade in air with a half-life ranging from hours (polluted air) to days (clean air).

- Fish Toxicity: LC0 (Golden Ide) >1000mg/L/48hrs.
- Invertibrate Toxicity: EC50 (Daphnia Magna) is >1000mg/L/24hrs.

Aquatic Toxicity:

- Arthropoda toxicity No effect level (Daphnia) is 10g/L/48hrs.
- Fish Toxicity: TLm (Trout) is 8000mg/L/48hrs.
- Amphibian Toxicity: LDlo (Frog) is 59gm/Kg.

Persistence/Degradability No information available on persistence/degradability for this product.

Mobility No information available on mobility for this product.

Environmental Fate Do NOT let product reach waterways, drains and sewers.

Bioaccumulation Potential No information available on bioaccumulation for this product.

Environmental Impact No Data Available

13 DISPOSAL CONSIDERATIONS

General Information

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Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

Special Precautions for Land Fill

Contact a specialist disposal company or the local waste regulator for advice. This should be done in accordance with 'The Hazardous Waste Act'. This material may be suitable for approved landfill.

14 TRANSPORT INFORMATION

Road and Rail Transport Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

UN No:	1993
Transport Hazard Class:	3 FLAMMABLE
Packing Group:	II
Proper Shipping Name:	FLAMMABLE LIQUID N.O.S. (Contains: ETHANOL)
EPG:	14 Liquids – Highly Flammable
Hazchem or Emergency Action Code:	3[Y]E

Marine Transport Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN No:	1993
Transport Hazard Class:	3 FLAMMABLE
Packing Group:	II
Proper Shipping Name:	FLAMMABLE LIQUID N.O.S. (Contains: ETHANOL)
IMDG EMS Fire:	F-E
IMDG EMS Spill:	S-D
Marine Pollutant:	No

Air Transport Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN No:	1993
Transport Hazard Class:	3 FLAMMABLE
Packing Group:	II
Proper Shipping Name or Technical Name:	ETHANOL SOLUTION

15 REGULATORY INFORMATION

Poisons Schedule	5
EPG Guide	14
AICS Name	Mixture containing. Ethyl Alcohol

Classification:

This material is hazardous according to Safe Work Australia; HAZARDOUS SUBSTANCE.

Classification of the substance or mixture:

Flammable Liquid	- Category 2
Eye Damage/Irritation	- Category 2A

Hazard Statement(s):

H225	Highly Flammable liquid and vapour.

Health hazards

H319	Causes serious eye irritation

16 OTHER INFORMATION

Literature References	No data available.
Sources for Data	No data available.

Legend to Abbreviations and Acronyms

<	less than
>	greater than
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (Registry Number)
cm^2	square centimetres
CO_2	Carbon Dioxide
COD	Chemical Oxygen Demand
deg C (°C)	degrees Celsius
ERMA	Environmental Risk Management Authority
G	gram
g/cm^3	grams per cubic centimetre
g/l	grams per litre
HSNO	Hazardous Substance and New Organism
IDLH	Immediately Dangerous to Life and Health
Immiscible	liquids are insoluble in each other
Kg	kilogram
kg/m^3	kilograms per cubic metre
LC_{50}	LC stands for Lethal Concentration. LC_{50} is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is

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	inhaled over a set period of time, usually 1 or 4 hours.
LD_{50}	LD stands for Lethal Dose. LD_{50} is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.
Ltr	Litre
m^3	cubic metre
mbar	millibar
mg	milligram
mg/24H	milligrams per 24 hours
mg/kg	milligrams per kilogram
mg/m^3	milligrams per cubic metre
Misc	miscible
Miscible	liquids form one homogeneous liquid phase regardless of the amount of either component present
mm	millimetre
mPa.s	milli Pascal per second

N/A	Not Applicable
NOHSC	National Occupational Health and Safety Commission
OECD	Organization for Economic Co-operation and Development
PEL	Permissible Exposure Limit
ppb	parts per billion
ppm	parts per million
ppm/2h	parts per million per 2 hours
ppm/6h	parts per million per 6 hours
RCP	Reciprocal Calculation Procedure
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
tne	tonne
TWA	Time Weighted Average
ug/24H	micrograms per 24 hours
UN	United Nations (number)
Wt	weight