

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

1.1. GHS product identifier

Product form	: Mixture
Trade name	: Alcohol Solvent
Type of product	: Solvents
EC-No.	: 200-578-6
CAS-No.	: 64-17-5
UN-No. (ADR)	: 1170
Product group	: End product

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended uses and restrictions : Hand sanitizers

1.4. Supplier's details

Distributor

Rolfes Chemicals Pty Ltd
Cnr Brammer and strachan street
P.O. Box 14075, Wadeville
1422 Germiston JHB – South Africa Gauteng
South Africa
T +27 11 873 0157

1.5. Emergency phone number

Emergency number : 0861114753

SECTION 2: Hazard identification

2.1. GHS classification of the substance/mixture and any national or regional information

Classification according to the United Nations GHS

Flammable liquids, Category 2	H225
Carcinogenicity, Category 1A	H350
Full text of H-statements: see section 16	
Adverse physicochemical, human health and environmental effects	: Highly flammable liquid and vapour.

2.2. GHS label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA) :



Signal word (GHS-ZA)	: Danger
Hazardous ingredients	: Ethanol
Hazard statements (GHS ZA)	: H225 - Highly flammable liquid and vapour H350 - May cause cancer
Precautionary statements (GHS ZA)	: P203 - Obtain, read and follow all safety instructions before use. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed.

Alcohol Solvent

Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8

P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof electrical, lighting, ventilating equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.
P280 - Wear eye protection, protective clothing, protective gloves.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].
P318 - IF exposed or concerned, get medical advice.
P370+P378 - In case of fire: Use alcohol resistant foam, dry sand, dry extinguishing powder to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards which do not result in classification or are not covered by the GHS

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to the United Nations GHS
Ethanol	CAS-No.: 64-17-5	95 – 100	Flam. Liq. 2, H225 Carc. 1A, H350
2-Propanol	CAS-No.: 67-63-0	≤ 5	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H336

SECTION 4: First aid measures

4.1. Description of necessary first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms/effect, acute and delayed

No additional information available

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapour.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

Alcohol Solvent

Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8

5.3. Special protective actions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethanol (64-17-5)	
South Africa - Occupational Exposure Limits (Restricted Limits)	
Local name	Ethanol [ethyl alcohol]
OEL eight hour TWA [ppm]	2000 ppm
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Ethanol (Ethyl alcohol)
OEL TWA	1900 mg/m ³
OEL TWA	1000 ppm
Regulatory reference	Government Notice No. R 904

Alcohol Solvent

Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8

2-Propanol (67-63-0)	
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Isopropyl alcohol (Propan-2-ol)
OEL TWA	980 mg/m ³
OEL TWA	400 ppm
OEL STEL	1225 mg/m ³
OEL STEL	500 ppm
Regulatory reference	Government Notice No. R 904
South Africa - Biological limit values	
Local name	2-Propanol
BEI	40 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B (background), Ns (non-specific)
Regulatory reference	Government Notice No. R. 280, 2021

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Hand protection : Protective gloves
Eye protection : Safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment
Personal protective equipment symbol(s)



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Colour : Colourless.
Odour : characteristic.
Odour threshold : No data available
pH : No data available
pH solution : No data available
Relative evaporation rate (butylacetate=1) : No data available
Relative evaporation rate (ether=1) : No data available
Melting point : -88,5 °C
Freezing point : No data available
Boiling point : 78,4 °C
Flash point : 12 °C
Auto-ignition temperature : 363 (>) °C
Decomposition temperature : No data available
Flammability : >
Highly flammable liquid and vapour.

Alcohol Solvent

Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8

Vapour pressure	: No data available
Vapour pressure at 50°C	: No data available
Relative vapour density at 20°C	: 2,08
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available
Density	: 0,791 g/cm ³
Relative gas density	: No data available
Solubility	: soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: 1,561 mm ² /s
Viscosity, dynamic	: 1,49 mPa·s
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosion limit	: 3,3 vol %
Upper explosion limit	: 19 vol %
Physical state	: Liquid
Appearance	: Liquid.

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10: Stability and Reactivity

10.1. Reactivity

Highly flammable liquid and vapour.

10.2. Chemical Stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified.

Alcohol Solvent (64-17-5)

LC50 Inhalation - Rat	> 20 mg/l
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Ethanol (64-17-5)

LD50 oral rat	7060 mg/kg Source: ECHA
LC50 Inhalation - Rat (Vapours)	116,9 mg/l Source: ECHA

Alcohol Solvent

Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8

2-Propanol (67-63-0)	
LD50 oral rat	5840 mg/kg Source: ECHA
LD50 dermal rabbit	12800 mg/kg Source: ECHA

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

2-Propanol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.

STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

Alcohol Solvent (64-17-5)	
Viscosity, kinematic	1,561 mm ² /s

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Alcohol Solvent (64-17-5)	
LC50 - Fish [1]	> 100 mg/l
LC50 - Other aquatic organisms [2]	> 100 mg/l
ErC50 algae	> 100 mg/l

Ethanol (64-17-5)	
LC50 - Fish [1]	> 100 mg/l Source: SIDS 2005
ErC50 algae	275 mg/l Source: ECHA

2-Propanol (67-63-0)	
LC50 - Fish [1]	9640 mg/l Source: ECHA

12.2. Persistence and degradability

Alcohol Solvent (64-17-5)	
Persistence and degradability	No additional information available
Biodegradation	> 70 %

12.3. Bioaccumulative potential

Alcohol Solvent (64-17-5)	
Bioaccumulative potential	No additional information available

Ethanol (64-17-5)	
Partition coefficient n-octanol/water (Log Kow)	-0,32 Source: ICSC

Alcohol Solvent

Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8

2-Propanol (67-63-0)

Partition coefficient n-octanol/water (Log Kow) : 0,05 Source: ICSC

12.4. Mobility in soil

Alcohol Solvent (64-17-5)

Mobility in soil : No additional information available

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available




SECTION 13: Disposal Considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA
14.1. UN number		
1170	1170	1170
14.2. UN Proper Shipping Name		
ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	Ethyl alcohol solution
14.3. Transport hazard class(es)		
3	3	3
		
14.4. Packing group, if applicable		
II	II	II
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information available		

14.6. Special precautions for user

SANS

Special provisions (SANS) : 144
Limited quantities (SANS) : 1 L
Limited quantities (SANS) : 1 L
Packagings, large packagings and IBCs Packing instructions (SANS) : P001, IBC02
Portable tank and bulk containers instructions (SANS) : T4

Alcohol Solvent

Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8

Portable tank and bulk container special provisions (SANS) : TP1

IMDG

Special provisions (IMDG) : 144
Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1
EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage) : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS
Stowage category (IMDG) : A
Properties and observations (IMDG) : Colourless, volatile liquids. Pure ETHANOL: flashpoint 13°C c.c. Explosive limits: 3.3% to 19% Miscible with water.

IATA

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y341
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 353
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 364
CAO max net quantity (IATA) : 60L
Special provisions (IATA) : A3, A58, A180
ERG code (IATA) : 3L

14.7. Transport in bulk according to IMO instructions

IBC product name : Ethyl alcohol.
IBC code : Applicable.
Pollution category : Z

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information

Issue date : 15/06/2023
Supersedes : 15/06/2023

Section	Changed item	Change	Comments
	Danger labels (SANS)	Added	
	Special provisions (IMDG)	Added	
	Excepted quantities (IMDG)	Added	
	IBC packing instructions (IMDG)	Added	
	Tank instructions (IMDG)	Added	
	Tank special provisions (IMDG)	Added	
	Stowage category (IMDG)	Added	
	Portable tank and bulk container special provisions (SANS)	Added	
	Limited quantities (IMDG)	Added	

Alcohol Solvent

Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8

Section	Changed item	Change	Comments
	EmS-No. (Spillage)	Added	
	Danger labels (IMDG)	Added	
	Proper Shipping Name (IMDG)	Added	
	Properties and observations (IMDG)	Added	
	Proper Shipping Name (IATA)	Added	
	Danger labels (IATA)	Added	
	PCA Excepted quantities (IATA)	Added	
	PCA Limited quantities (IATA)	Added	
	EmS-No. (Fire)	Added	
	Portable tank and bulk containers instructions (SANS)	Added	
	Packagings, large packagings and IBCs Packing instructions (SANS)	Added	
	Special provisions (SANS)	Added	
	Hazard statements (GHS ZA)	Added	
	Precautionary statements (GHS ZA)	Added	
	Hazard pictograms (GHS ZA)	Added	
	Signal word (GHS-ZA)	Added	
	Proper Shipping Name (SANS)	Added	
	Packing group (SANS)	Added	
	Limited quantities (SANS)	Added	
	PCA limited quantity max net quantity (IATA)	Added	
	PCA packing instructions (IATA)	Added	
	CAO packing instructions (IATA)	Added	
	CAO max net quantity (IATA)	Added	
	Special provisions (IATA)	Added	
	ERG code (IATA)	Added	
	UN-No.(SANS)	Added	
	Flammability	Added	
	PCA max net quantity (IATA)	Added	
1.1	Trade name	Modified	
2.1	Classification (GHS UN)	Added	
2.1	Adverse physicochemical, human health and environmental effects	Added	
3	Composition/information on ingredients	Modified	
4	First-aid measures after eye contact	Added	
4	First-aid measures after ingestion	Added	
4	First-aid measures after inhalation	Added	
4	Other medical advice or treatment	Added	
4	First-aid measures after skin contact	Added	

Alcohol Solvent

Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8

Section	Changed item	Change	Comments
5.1	Suitable extinguishing media	Added	
5.2	Hazardous decomposition products in case of fire	Added	
5.2	Fire hazard	Added	
5.3	Protection during firefighting	Added	
6	Environmental precautions	Added	
6	Protective equipment	Added	
6	Other information	Added	
6	Methods for cleaning up	Added	
6	Emergency procedures	Added	
7.1	Hygiene measures	Added	
7.1	Precautions for safe handling	Added	
7.2	Storage conditions	Added	
7.2	Technical measures	Added	
8.2	Appropriate engineering controls	Added	
8.2	Eye protection	Added	
8.2	Hand protection	Added	
8.2	Skin and body protection	Added	
8.2	Respiratory protection	Added	
8.2	Environmental exposure controls	Added	
9	Auto-ignition temperature	Added	
9	Boiling point	Added	
9	Colour	Added	
9	Flash point	Added	
9	Melting point	Added	
9	Odour	Added	
9	Relative vapour density at 20°C	Added	
9	Flammability	Added	
9	Solubility	Added	
9	Viscosity, dynamic	Added	
9	Viscosity, kinematic	Added	
9	Lower explosion limit	Added	
9	Upper explosion limit	Added	
9	Appearance	Added	
9	Density	Added	
10	Hazardous decomposition products	Added	
10	Chemical stability	Added	
10	Possibility of hazardous reactions	Added	
10	Conditions to avoid	Added	

Alcohol Solvent

Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8

Section	Changed item	Change	Comments
10	Reactivity	Added	
12.1	Ecology - general	Added	
13	Waste treatment methods	Added	
13	Additional information	Added	
14	IBC code	Added	
14	Pollution category	Added	
14	IBC product name	Added	
14.1	UN-No. (ADR)	Added	
14.1	UN-No. (IATA)	Added	
14.1	UN-No. (IMDG)	Added	
14.4	Packing group (IMDG)	Added	
14.4	Packing group (IATA)	Added	
14.6	Packing instructions (IMDG)	Added	

Full text of H-statements:	
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H350	May cause cancer

Safety Data Sheet (SDS), South Africa (HCA)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.