

SECTION 1: Identification

1.1. Product identifier

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

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

Use of the substance/mixture	: Raw material Aerosol propellants , Printing ink additive, Industrial use.
Recommended uses and restrictions	: Hand sanitizers

1.3. 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

1.4. Emergency telephone number

Emergency number	: 0861114753
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SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Flammable liquids, Category 2	H225
Carcinogenicity, Category 1A	H350
Full text of H-statements: see section 16	

2.2. Label elements

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. 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.

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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

Adverse physicochemical, human health and environmental effects : Highly flammable liquid and vapour.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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 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 and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

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 material 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

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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 (PPE)

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. Information on 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.

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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 %

9.2. Other information

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.

Clear Meths (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

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According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 9

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	Not available
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Clear Meths (64-17-5)	
Viscosity, kinematic	1,561 mm ² /s
Ethanol (64-17-5)	
Animal studies and expert judgment for classification	False
2-Propanol (67-63-0)	
Animal studies and expert judgment for classification	False

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

Clear Meths (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
Partition coefficient n-octanol/water (Log Pow)	-0,32 Source: ICSC
2-Propanol (67-63-0)	
LC50 - Fish [1]	9640 mg/l Source: ECHA
Partition coefficient n-octanol/water (Log Pow)	0,05 Source: ICSC

12.2. Persistence and degradability

Clear Meths (64-17-5)	
Persistence and degradability	No additional information available

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Clear Meths (64-17-5)	
Biodegradation	> 70 %

12.3. Bioaccumulative potential

Clear Meths (64-17-5)	
Bioaccumulative potential	No additional information available

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

2-Propanol (67-63-0)	
Partition coefficient n-octanol/water (Log Pow)	0,05 Source: ICSC

12.4. Mobility in soil

Clear Meths (64-17-5)	
Mobility in soil	No additional information available

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

2-Propanol (67-63-0)	
Partition coefficient n-octanol/water (Log Pow)	0,05 Source: ICSC

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. 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
		

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SANS	IMDG	IATA
14.4. Packing group		
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
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 Annex II of MARPOL 73/78 and the IBC Code

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

SECTION 15: Regulatory information

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

No additional information available

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According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 9

SECTION 16: Other information

Issue date : 2023/06/15
Revision date : 2024/02/15
Supersedes : 2023/06/15

Indication of changes			
Section	Changed item	Change	Comments
	Danger labels (SANS)	Added	No additional information available
	Special provisions (IMDG)	Added	No additional information available
	Excepted quantities (IMDG)	Added	No additional information available
	IBC packing instructions (IMDG)	Added	No additional information available
	Tank instructions (IMDG)	Added	No additional information available
	Tank special provisions (IMDG)	Added	No additional information available
	Stowage category (IMDG)	Added	No additional information available
	Portable tank and bulk container special provisions (SANS)	Added	No additional information available
	Limited quantities (IMDG)	Added	No additional information available
	EmS-No. (Spillage)	Added	No additional information available
	Danger labels (IMDG)	Added	No additional information available
	Proper Shipping Name (IMDG)	Added	No additional information available
	Properties and observations (IMDG)	Added	No additional information available
	Proper Shipping Name (IATA)	Added	No additional information available
	Danger labels (IATA)	Added	No additional information available
	PCA Excepted quantities (IATA)	Added	No additional information available
	PCA Limited quantities (IATA)	Added	No additional information available
	EmS-No. (Fire)	Added	No additional information available
	Portable tank and bulk containers instructions (SANS)	Added	No additional information available
	Packagings, large packagings and IBCs Packing instructions (SANS)	Added	No additional information available
	Special provisions (SANS)	Added	No additional information available
	Hazard statements (GHS ZA)	Added	No additional information available
	Precautionary statements (GHS ZA)	Added	No additional information available
	Hazard pictograms (GHS ZA)	Added	No additional information available
	Signal word (GHS-ZA)	Added	No additional information available
	Proper Shipping Name (SANS)	Added	No additional information available
	Packing group (SANS)	Added	No additional information available
	Limited quantities (SANS)	Added	No additional information available
	PCA limited quantity max net quantity (IATA)	Added	No additional information available
	PCA packing instructions (IATA)	Added	No additional information available
	CAO packing instructions (IATA)	Added	No additional information available
	CAO max net quantity (IATA)	Added	No additional information available

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Indication of changes			
Section	Changed item	Change	Comments
	Special provisions (IATA)	Added	No additional information available
	ERG code (IATA)	Added	No additional information available
	UN-No.(SANS)	Added	No additional information available
	Flammability	Added	No additional information available
	PCA max net quantity (IATA)	Added	No additional information available
1.1	Trade name	Modified	No additional information available
2.1	Classification (GHS UN)	Added	No additional information available
2.1	Adverse physicochemical, human health and environmental effects	Added	No additional information available
3	Composition/information on ingredients	Modified	No additional information available
4	First-aid measures after eye contact	Added	No additional information available
4	First-aid measures after ingestion	Added	No additional information available
4	First-aid measures after inhalation	Added	No additional information available
4	Other medical advice or treatment	Added	No additional information available
4	First-aid measures after skin contact	Added	No additional information available
5.1	Suitable extinguishing media	Added	No additional information available
5.2	Hazardous decomposition products in case of fire	Added	No additional information available
5.2	Fire hazard	Added	No additional information available
5.3	Protection during firefighting	Added	No additional information available
6	Environmental precautions	Added	No additional information available
6	Protective equipment	Added	No additional information available
6	Other information	Added	No additional information available
6	Methods for cleaning up	Added	No additional information available
6	Emergency procedures	Added	No additional information available
7.1	Hygiene measures	Added	No additional information available
7.1	Precautions for safe handling	Added	No additional information available
7.2	Storage conditions	Added	No additional information available
7.2	Technical measures	Added	No additional information available
8.2	Appropriate engineering controls	Added	No additional information available
8.2	Eye protection	Added	No additional information available
8.2	Hand protection	Added	No additional information available
8.2	Skin and body protection	Added	No additional information available
8.2	Respiratory protection	Added	No additional information available
8.2	Environmental exposure controls	Added	No additional information available
9	Auto-ignition temperature	Added	No additional information available
9	Boiling point	Added	No additional information available
9	Colour	Added	No additional information available
9	Flash point	Added	No additional information available

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Indication of changes			
Section	Changed item	Change	Comments
9	Melting point	Added	No additional information available
9	Odour	Added	No additional information available
9	Relative vapour density at 20°C	Added	No additional information available
9	Flammability	Added	No additional information available
9	Solubility	Added	No additional information available
9	Viscosity, dynamic	Added	No additional information available
9	Viscosity, kinematic	Added	No additional information available
9	Lower explosion limit	Added	No additional information available
9	Upper explosion limit	Added	No additional information available
9	Appearance	Added	No additional information available
9	Density	Added	No additional information available
10	Hazardous decomposition products	Added	No additional information available
10	Chemical stability	Added	No additional information available
10	Possibility of hazardous reactions	Added	No additional information available
10	Conditions to avoid	Added	No additional information available
10	Reactivity	Added	No additional information available
12.1	Ecology - general	Added	No additional information available
13	Waste treatment methods	Added	No additional information available
13	Additional information	Added	No additional information available
14	IBC code	Added	No additional information available
14	Pollution category	Added	No additional information available
14	IBC product name	Added	No additional information available
14.1	UN-No. (ADR)	Added	No additional information available
14.1	UN-No. (IATA)	Added	No additional information available
14.1	UN-No. (IMDG)	Added	No additional information available
14.4	Packing group (IMDG)	Added	No additional information available
14.4	Packing group (IATA)	Added	No additional information available
14.6	Packing instructions (IMDG)	Added	No additional information available

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

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.