

SECTION 1: Identification

1.1. Product identifier

Product form	: Substance
Trade name	: Methylene Chloride
Substance type	: Mono-constituent
EC-No.	: 200-838-9
EC Index-No.	: 602-004-00-3
CAS-No.	: 75-09-2
Product code	: 000000005117910000
Product group	: End product

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

Use of the substance/mixture	:
Recommended uses and restrictions	: ADHESIVES Solvents Foaming agents

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

SECTION 2: Hazards identification


2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Acute toxicity (oral), Category 1	H300
Acute toxicity (dermal), Category 1	H310
Carcinogenicity, Category 1B	H350
Specific target organ toxicity – Repeated exposure, Category 1	H372
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)	:	Warning
Hazard statements (GHS ZA)	:	H300+H310 - Fatal if swallowed or in contact with skin H350 - May cause cancer H372 - Causes damage to organs through prolonged or repeated exposure
Precautionary statements (GHS ZA)	:	P203 - Obtain, read and follow all safety instructions before use. P260 - Do not breathe dusts or mists. P262 - Do not get in eyes, on skin, or on clothing. P264 - Wash hands, forearms and face thoroughly after handling.

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According to SANS 10234:2019 and SANS 11014:2010

P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective clothing, eye protection, face protection.
P301+P316 - IF SWALLOWED: Get emergency medical help immediately.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P316 - Get emergency medical help immediately.
P318 - IF exposed or concerned, get medical advice.
P319 - Get medical help if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P330 - Rinse mouth.
P361+P364 - Take off immediately all contaminated clothing and wash it before reuse.
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 : May cause cancer (if inhaled, if swallowed, inhalation), Causes damage to organs (Respiratory tract, Skin) through prolonged or repeated exposure (if inhaled, inhalation, if swallowed), Fatal in contact with skin, Fatal if swallowed.

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent
Name : Methylene Chloride
CAS-No. : 75-09-2
EC-No. : 200-838-9
EC Index-No. : 602-004-00-3
Product identifiers: See section 1.1

Name	Product identifier	%	Classification according to the United Nations GHS
dichloromethane; methylene chloride	CAS-No.: 75-09-2	≤ 100	Carc. 1B, H350 STOT RE 1, H372

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Rinse mouth. Call a physician immediately.

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.

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According to SANS 10234:2019 and SANS 11014:2010

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

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.

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 : Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapours/spray.

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. Notify authorities if product enters sewers or public waters.

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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing.

Hygiene measures : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. 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

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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According to SANS 10234:2019 and SANS 11014:2010

dichloromethane; methylene chloride (75-09-2)

South Africa - Occupational Exposure Limits (Maximum Limits)

Local name	Dichloromethane [methylene chloride]
RHCA - STEL/C [ppm]	100 ppm
Remark	SKIN (danger of cutaneous absorption), CARC (denotes carcinogenicity, which is based on GHS categorisation, including category 1A and 1B)
Regulatory reference	Government Notice No. R. 280, 2021

South Africa - Occupational Exposure Limits (Airborne Pollutants)

Local name	Methylene chloride (Dichloromethane)
OEL TWA	175 mg/m ³
OEL TWA	50 ppm
OEL STEL	780 mg/m ³
OEL STEL	250 ppm
Regulatory reference	Government Notice No. R 904

South Africa - Biological limit values

Local name	Dichloromethane
BEI	0,3 mg/l Parameter: Dichloromethane - Medium: urine - Sampling time: End of shift - Notations: Sq (semi-quantitative)
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 inadequate ventilation] wear respiratory protection.

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 : clear.
Odour : Ethereal.
Odour threshold : 160 – 230 ppm
pH : No data available
pH solution : No data available
Relative evaporation rate (butylacetate=1) : No data available

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Relative evaporation rate (ether=1)	: No data available
Melting point	: 95 °C
Freezing point	: No data available
Boiling point	: 40 (≥) °C
Flash point	: No data available
Auto-ignition temperature	: 605 °C
Decomposition temperature	: 120 (>) °C
Flammability	: Non flammable.
Vapour pressure	: No data available
Vapour pressure at 50°C	: No data available
Relative vapour density at 20°C	: 2,93
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available
Density	: 1,32 g/cm ³
Relative gas density	: No data available
Solubility	: Water: 13,2 g/l
Partition coefficient n-octanol/water (Log Pow)	: 1,25
Partition coefficient n-octanol/water (Log Kow)	: 7
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosion limit	: 450 g/m ³
Upper explosion limit	: 780 g/m ³

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Oxidizing agent. Strong acids. Strong bases. Aluminium.

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)	: Fatal if swallowed.
Acute toxicity (dermal)	: Fatal in contact with skin.
Acute toxicity (inhalation)	: Not classified.

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Methylene Chloride (75-09-2)	
LD50 oral rat	2 mg/kg
LD50 dermal rat	2 (>) mg/kg
LC50 Inhalation - Rat	60,14 mg/l
dichloromethane; methylene chloride (75-09-2)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Skin corrosion/irritation	: CAUSES SKIN IRRITATION
Serious eye damage/irritation	: Irritation to eyes.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Positive
Carcinogenicity	: Positive. May have carcinogenic effect
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
dichloromethane; methylene chloride (75-09-2)	
NOAEL (oral, rat, 90 days)	6 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
dichloromethane; methylene chloride (75-09-2)	
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

Methylene Chloride (75-09-2)	
Partition coefficient n-octanol/water (Log Kow)	7
Partition coefficient n-octanol/water (Log Pow)	1,25
dichloromethane; methylene chloride (75-09-2)	
LC50 - Fish [1]	193 mg/l Test organisms (species): Pimephales promelas

12.2. Persistence and degradability

Methylene Chloride (75-09-2)	
Persistence and degradability	No additional information available

12.3. Bioaccumulative potential

Methylene Chloride (75-09-2)	
Partition coefficient n-octanol/water (Log Pow)	1,25

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According to SANS 10234:2019 and SANS 11014:2010

Methylene Chloride (75-09-2)	
Partition coefficient n-octanol/water (Log Kow)	7
Bioaccumulative potential	No additional information available

12.4. Mobility in soil

Methylene Chloride (75-09-2)	
Mobility in soil	No additional information available
Partition coefficient n-octanol/water (Log Pow)	1,25
Partition coefficient n-octanol/water (Log Kow)	7

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.

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA
14.1. UN number		
1593	1593	1593
14.2. Proper Shipping Name		
DICHLOROMETHANE	DICHLOROMETHANE	Dichloromethane
14.3. Transport hazard class(es)		
6.1	6.1	6.1
		
14.4. Packing group		
III	III	III
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
Limited quantities (SANS) : 5 L
Limited quantities (SANS) : 5 L
Packagings, large packagings and IBCs Packing instructions (SANS) : P001, IBC03, LP01

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According to SANS 10234:2019 and SANS 11014:2010

Packagings, large packagings and IBCs Special packing instructions (SANS) : B8
Portable tank and bulk containers instructions (SANS) : T7
Portable tank and bulk container special provisions (SANS) : TP2

IMDG

Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
IBC special provisions (IMDG) : B8
Tank instructions (IMDG) : T7
Tank special provisions (IMDG) : TP2
EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage) : S-A - SPILLAGE SCHEDULE Alfa - TOXIC SUBSTANCES
Stowage category (IMDG) : A
Segregation (IMDG) : SGG10
Properties and observations (IMDG) : Colourless, volatile liquid with heavy vapours. Boiling point: 40°C. When involved in a fire, evolves extremely toxic fumes (phosgene). Toxic if swallowed, by skin contact or by inhalation.

IATA

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y642
PCA limited quantity max net quantity (IATA) : 2L
PCA packing instructions (IATA) : 655
PCA max net quantity (IATA) : 60L
CAO packing instructions (IATA) : 663
CAO max net quantity (IATA) : 220L
ERG code (IATA) : 6L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

No additional information available

SECTION 16: Other information

Issue date : 2022/09/02
Supersedes : 2024/01/30

Indication of changes			
Section	Changed item	Change	Comments
	Supersedes	Added	No additional information available
	ATE ZA (oral)	Added	No additional information available
	ATE ZA (Dermal)	Added	No additional information available
	ATE ZA (vapours)	Added	No additional information available
	ATE ZA (dust, mist)	Added	No additional information available
	Precautionary statements (GHS ZA)	Added	No additional information available
	STOT-single exposure - comment	Added	No additional information available

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According to SANS 10234:2019 and SANS 11014:2010

Indication of changes			
Section	Changed item	Change	Comments
	Skin corrosion/irritation - comment	Added	No additional information available
	Serious eye damage/irritation - comment	Added	No additional information available
	Recommended uses and restrictions	Added	No additional information available
	Carcinogenicity - comment	Added	No additional information available
	Germ cell mutagenicity - comment	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
	PCA limited quantity max net quantity (IATA)	Added	No additional information available
	PCA packing instructions (IATA)	Added	No additional information available
	PCA max net quantity (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
	ERG code (IATA)	Added	No additional information available
	UN-No.(SANS)	Added	No additional information available
	Signal word (GHS-ZA)	Added	No additional information available
	Hazard statements (GHS ZA)	Added	No additional information available
	Hazard pictograms (GHS ZA)	Added	No additional information available
	EmS-No. (Fire)	Added	No additional information available
	Limited quantities (IMDG)	Added	No additional information available
	Segregation (IMDG)	Added	No additional information available
	Flammability	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
	Portable tank and bulk containers instructions (SANS)	Added	No additional information available
	Portable tank and bulk container special provisions (SANS)	Added	No additional information available
	Packagings, large packagings and IBCs Special packing instructions (SANS)	Added	No additional information available
	Danger labels (SANS)	Added	No additional information available
	Excepted quantities (IMDG)	Added	No additional information available
	IBC packing instructions (IMDG)	Added	No additional information available

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According to SANS 10234:2019 and SANS 11014:2010

Indication of changes			
Section	Changed item	Change	Comments
	IBC special provisions (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
	Packagings, large packagings and IBCs Packing instructions (SANS)	Added	No additional information available
1.1	EC-No.	Added	No additional information available
1.1	EC Index-No.	Added	No additional information available
1.1	CAS-No.	Added	No additional information available
2.1	Adverse physicochemical, human health and environmental effects	Added	No additional information available
2.1	Classification (GHS UN)	Added	No additional information available
4	First-aid measures general	Added	No additional information available
4	First-aid measures after skin contact	Added	No additional information available
4	First-aid measures after ingestion	Added	No additional information available
4	Other medical advice or treatment	Added	No additional information available
4	First-aid measures after eye contact	Added	No additional information available
4	First-aid measures after inhalation	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
5.3	Protection during firefighting	Added	No additional information available
6	Environmental precautions	Added	No additional information available
6	Emergency procedures	Added	No additional information available
6	Methods for cleaning up	Added	No additional information available
6	Other information	Added	No additional information available
6	Protective equipment	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
8.2	Respiratory protection	Added	No additional information available
8.2	Skin and body protection	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	Environmental exposure controls	Added	No additional information available
9	Density	Added	No additional information available
9	Appearance	Added	No additional information available
9	Auto-ignition temperature	Added	No additional information available

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According to SANS 10234:2019 and SANS 11014:2010

Indication of changes			
Section	Changed item	Change	Comments
9	Boiling point	Added	No additional information available
9	Colour	Added	No additional information available
9	Decomposition temperature	Added	No additional information available
9	Partition coefficient n-octanol/water (Log Pow)	Added	No additional information available
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	Solubility in water	Added	No additional information available
9	Partition coefficient n-octanol/water (Log Kow)	Added	No additional information available
9	Lower explosion limit	Added	No additional information available
9	Upper explosion limit	Added	No additional information available
9	Odour threshold [ppm]	Added	No additional information available
10	Conditions to avoid	Added	No additional information available
10	Hazardous decomposition products	Added	No additional information available
10	Incompatible materials	Added	No additional information available
10	Reactivity	Added	No additional information available
10	Possibility of hazardous reactions	Added	No additional information available
10	Chemical stability	Added	No additional information available
11.1	LC50 Inhalation - Rat	Added	No additional information available
11.1	LD50 oral rat	Added	No additional information available
11.1	LD50 dermal rat	Added	No additional information available
12.1	Ecology - general	Added	No additional information available
12.3	Partition coefficient n-octanol/water (Log Pow)	Added	No additional information available
12.3	Partition coefficient n-octanol/water (Log Kow)	Added	No additional information available
13	Waste treatment methods	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 (IATA)	Added	No additional information available
14.4	Packing group (IMDG)	Added	No additional information available
14.6	Packing instructions (IMDG)	Added	No additional information available

Full text of H-statements	
H300	Fatal if swallowed
H310	Fatal in contact with skin
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure

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.