

## SAFETY DATA SHEET

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Revision Date Jun 01, 2022

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **1.1 Product identifier**

Product name	DICHLOROMETHANE
CAS-No.	75-09-2
Product code	AH1042A, AH1043A, AR1040A, BP1040A, EP1040A, GP1040A,
	IR1040A, LC1040A, LC1041A, LV1040A, PC1040A, PS1040A,
	RP1040A, XP1040A, XP1323A

1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses Chemical for analysis and production.

#### 1.3 Details of the supplier of the safety data sheet

Company	ChemSupply Australia Pty Ltd
	38 - 50 Bedford Street, Gillman SA 5013 Australia
Telephone number	(08) 8440 2000
Fax number	(08) 8440 2001

#### 1.4 Emergency Telephone Number

Emergency phone	
Monday - Friday 8:30am - 5:00pm ACST	(08) 8440 2000
After hours: CHEMCALL	1800127406 / +6449179888

#### 1.5 Manufacturer

Company

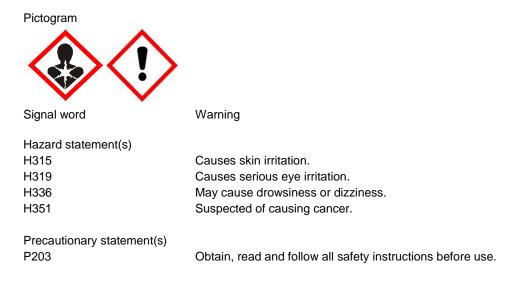
RCI LABSCAN LIMITED. 24 Rama 1 Road, Pathumwan, Bangkok 10330 Thailand

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification according to WHS Regulations (Australia) Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Carcinogenicity (Category 2), H351 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336 For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 Label elements



P261 P264 P271 P280 P302 + P352 P304 + P340	Avoid breathing fume/gas/mist/vapours/spray. Wash hand thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty water. IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P318	IF exposed or concerned: Get medical advice.
P319	Get medical help if you feel unwell.
P332 + P317	If skin irritation occurs: Get medical help.
P337 + P317	If eye irritation persists: Get medical help.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
2.3 Other hazards	None

## **SECTION 3: Composition/information on ingredients**

3.1 Substances Synonyms	Methanedic	hloride, Methylene bi	chloride, Methyle	ne chloride, Methylene dio	hloride.
CAS-No	EC-No	EC-Index-No	Formula	Molecular Weight	Weight %
75-09-2	200-838-9	602-004-00-3	$CH_2CI_2$	84.93 g/mol	>99.8

## Hazardous ingredients according to WHS Regulations (Australia)

C	omponent	Concentration	Classification
Dichlorome	ethane		
CAS-No EC-No EC-Index-N	75-09-2 200-838-9 o 602-004-00-3	>99.8%	Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Carcinogenicity (Category 2), H351 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

For the full text of the H-Statements mentioned in this Section, see Section 16

## 3.2 Stabilized

<b>Amylene</b> Synonyms	2-Methyl-	2-butene, Trimethylet	hylene		
CAS-No	EC-No	EC-Index-No	Formula	Molecular Weight	Weight %
513-35-9	208-156-3	-	C₅H <sub>10</sub>	70.14 g/mol	<0.005

## Hazardous ingredients according to WHS Regulations (Australia)

C	Component	Concentration	Classification
Amylene			
CAS-No	513-35-9	<0.005%	Flammable liquids (Category 1), H224
EC-No	208-156-3		Acute toxicity, Oral (Category 4), H302
EC-Index-N	No -		Skin irritation (Category 2), H315
			Aspiration hazard (Category 1), H304

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice Inhalation	Show this safety data sheet to the doctor in attendance. Move to fresh air in case of accidental inhalation of vapors. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus.
Skin contact	Remove contaminated clothing and wash affected skin with soap and water. If signs of poisoning appear, treat as for inhalation. Obtain medical attention. Wash contaminated clothing before reuse.
Eye contact	If the substance has got into the eyes, immediately wash out with plenty of water at least 15 minutes. Obtain medical attention.
Ingestion	Rinse mouth. Do not induce vomiting. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus. Obtain medical attention. Never give anything by mouth to an unconscious person.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2.2 and section 11

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

Activate charcoal (20 – 40 g in 10% slurry). Risk of aspiration. Immediately call in physician.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

In adaption to materials stored in the immediate neighborhood.

#### 5.2 Special hazards arising from the substance or mixture

Non-combustible liquid. Vapors heavier than air. Ambient fire may liberate hazardous vapors. The following may develop in event of fire: Hydrochloric acid, phosgene.

#### 5.3 Advice for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin. Keep a safety distance and wear suitable protective clothing.

5.4 Hazchem Code

2Z

#### 5.5 Further information

Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or ground water.

## **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Do not breathe vapors or spray mist. Wear a positive-pressure supplied-air respirator, flame retardant antistatic protective clothing. Shut off leaks if without risk. Keep people away from and upwind of spill/leak.

#### 6.2 Environmental precautions

Contain or absorb leaking liquid with sand or earth, consults an expert. Prevent liquid entering sewers, basements and workpits. If substance has entered a water course or sewer or contaminated soil, advise police.

#### 6.3 Methods and materials for containment and cleaning up

Spillage: May react with combustible substances creating fire or explosion hazard and formation of toxic fumes. Soak up with inert absorbent material (e.g. sand, silica gel or chemical absorbent pads). Prevent liquid entering sewers, basements and workpits; vapor may create explosive atmosphere. Transfer to covered steel drums. Dispose of promptly

#### 6.4 Reference to other sections

For disposal see Section 13.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Keep container tightly closed. Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Do not empty into drains.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep out of direct sunlight and away from incompatible materials. Store in original container. Electrical equipment should be protected to the appropriate standard.

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

## Exposure limit (Safe Work Australia)

TWA:	50 ppm (174 mg/m³)
STEL:	Not Available

#### 8.2 Exposure controls

#### Appropriate engineering controls

The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Ventilation hoods and fans required when working with organic solvents or in hot melt applications.

#### Individual protection measures (Personal protective equipment, PPE) Eye/face protection

Goggles giving complete protection to eyes.

#### **Skin protection**

Chemical resistant apron, heavy duty work shoes. Handle with gloves

- Splash contact wears gloves from viton material.

The select protective gloves have to satisfy the specifications of EU Directive 89/686 EEC and standard EN 374 derived from it.

#### **Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment. Required when vapor/aerosols are generated filter AX (EN 371).

#### Environmental exposure controls

Prevent liquid entering sewers, basements and workpits.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

. –	
Appearance: Form	Liquid
: Color	Colorless
Odour	Sweetish
Odour Threshold	Not Available
рН	Neutral at 20°C
Melting point/range	-95 ℃
Boiling point/range	40 °C
Flash point	Does not flash
Evaporation rate	Not Available
Flammability (solid, gas)	Not Available
Explosion limits: lower	13 % (V)
upper	22 % (V)
Vapor Pressure	475 hPa at 20⁰C
Relative Vapor Density	2.9
Density	1.330 g/ml at 20⁰C
Water solubility	20 g/l at 20ºC
Partition coefficient (n-octanol/water)	log Pow: 1.25
Auto-Ignition temperature	605 °C
Decomposition Temperature	Not Available
Viscosity	0.43 mPa.s at 20⁰C
Explosive properties	Not Explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Heat-sensitive, light sensitive/decomposition; unsuitable working materials: various plastic, rubbers, light metals, metals, steel.

#### **10.2 Chemical stability**

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Risk of explosion in contact with alkali metals, aluminium (powder), nitric oxides, nitric acid, aluminium chloride, 1,2-diaminoethane, sodium azide, perchloric acid, liquid oxygen.

The substance can react dangerously with alkali/alkaline earth metals, potassium-tert.-butylate, metal powders, sodium amide, heat, pressure.

#### 10.4 Conditions to avoid

Heat and sunlight.

#### 10.5 Incompatible materials

Alkali metals, alkaline earth metals, metals in powder form, nitrogen oxides, alcoholates, alkali amides, perchloric acid, nitric acid, nonmetallic oxides, oxygen, aluminium, sodium azide.

#### **10.6 Hazardous decomposition products**

Hydrochloric acid, phosgene, chlorine, Carbon monoxides, Carbon dioxides (Hazardous decomposition products from under fire condition).

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Acute toxicity LD<sub>50</sub> (oral, rat): 1600 mg/kg

## Acute oral toxicity

Absorption Symptoms: nausea and vomiting.

## Acute inhalation toxicity

Symptoms: mucosal irritations

## Skin corrosion/irritation

Slight irritations, Degreasing effect on the skin, possibly followed by secondary inflammation.

## Serious eye damage/eye irritation

Slight irritations. Risk of corneal clouding.

**Respiratory or skin sensitization** Not Available

## Germ cell mutagenicity

Bacterial mutagenicity; Ames test is positive. Mutagenicity (mammal, cell test): micronucleus negative (in vivo).

#### Carcinogenicity

The carcinogenic potential requires further clarification but, owing possible carcinogenic effects for man.

#### **Reproductive toxicity**

No impairment of reproductive performance in animal experiments.

## Teratogenicity

No teratogenic effect in animal experiments.

## Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness.

## Specific target organ toxicity (STOT) - repeated exposure

May cause damage to organs through prolonged or repeated exposure (Inhalation) - Central nervous system

## Aspiration hazard

Not Available

## **Further information**

After accidental swallowing the substance may pose a risk of aspiration. Passage into the lung (vomiting) can result in a condition resembling pneumonia (chemical pneumonitis).

After absorption of large quantities: CNS disorders, drowsiness, dizziness, drop in blood pressure, cardiac dysrhythmia, respiratory paralysis, depressed respiration, inebriation, narcosis.

The following applies to aliphatic halogenated hydrocarbons in general: systemic effect: narcosis, cardiovascular disorders.

The product should be handled with the care usual when dealing with chemicals.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Toxicity to fishLC50 P.proToxicity to daphniaEC50 Daphand other aquatic invertebratesIC50 SelenToxicity to algaeIC50 SelenToxicity to bacteriaEC50 Phot

LC<sub>50</sub> P.promelas: 193 mg/l/96h EC<sub>50</sub> Daphnia magna: 1682 mg/l/48h

 $IC_{50}$  Selenastrum capricornutum: >660 mg/l/96h  $EC_{50}$  Photobacterium phosphoreum: 2.88 mg/l/15min microtox test.

#### 12.2 Persistence and degradability

Biodegradability 5 - 26 % /28d. MITI test. Biologically not readily. After adaption biodegradable.

#### 12.3 Bioaccumulative potential

Partition coefficient (n-octanol/water) log Pow: 1.25 (experimental).

No appreciable bioaccumulation potential is to be expected (log Po/w 1-3)

## 12.4 Mobility in soil

Not Available

#### 12.5 Other adverse effects

Distribution preferentially in air. Do not allow to enter waters, waste water or soil.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

## Product

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding law and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste or burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

#### **Contaminated packaging**

Disposal in compliance with official regulations. Handle contaminated packaging as hazardous waste in the same way of the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

## **SECTION 14: Transport information**

#### Land Transport (ADR/RID)

LINI Number	1502
UN Number	1593
UN proper shipping name	DICHLOROMETHANE
Transport hazard class(es)	6.1
Hazchem Code	2Z
Packing group	111
Environmental hazards	No
Special precautions for user	Yes
Sea transport (IMDG)	
<b>Sea transport (IMDG)</b> UN Number	1593
	1593 DICHLOROMETHANE
UN Number	
UN Number UN proper shipping name	DICHLOROMETHANE
UN Number UN proper shipping name Transport hazard class(es)	DICHLOROMETHANE 6.1
UN Number UN proper shipping name Transport hazard class(es) Packing group	DICHLOROMETHANE 6.1 III

EmS	F-A S-A
Air transport (IATA)	
UN Number	1593
UN proper shipping name	DICHLOROMETHANE
Transport hazard class(es)	6.1
Packing group	III
Environmental hazards	No
Special precautions for user	No

River transport (AND/ADNR)

(Not examined)

## **SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixtureRegulatory InformationListed in the Australian Inventory of Chemical Substances (AICS).Poisons ScheduleS5

#### **15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

## **SECTION 16: Other information**

#### Full text of H-Statements referred to under sections 2 and 3

H224	Extremely flammable liquid and vapour.
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.

## **Recommended restrictions**

Take notice of labels and safety data sheets for the working.

#### Reference

Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Labelling according to EC Directives 67/548 EEC and Regulation (EC) No 1272/2008.

Transportation information according to Recommendations on the Transport of Dangerous Goods, Model

Regulations. Twelfth revised edition. United Nations.

Institute for Occupational Safety and Health of the German Social Accident Insurance in Sankt Augustin/Germany, Source: IFA for Databases on hazardous substances (GESTIS).

## **Further information**

Contact to RCI Labscan Limited.

# Revision Date 01/06/2022

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.