

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, CG1040A, EP1040A, GP1040A, IR1040A, LC1040A, LC1041A, PC1040A, 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 Chem-Supply 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), Respiratory system, H335
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Specific target organ toxicity - repeated exposure (Category 2), Liver, Blood, Central nervous system, H373
For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

R40
R36/37/38, R67

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements

Pictogram



Signal word

Warning

Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs (Liver, Blood, Central nervous system) through prolonged or repeated exposure.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe vapors.
P261	Avoid breathing vapours.
P264	Wash hand thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection/face protection.
P281	Use personal protective equipment as required.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physical if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash 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 Methanedichloride, Methylene bichloride, Methylene chloride, Methylene dichloride.

CAS-No	EC-No	EC-Index-No	Formula	Molecular Weight	Weight %
75-09-2	200-838-9	602-004-00-3	CH ₂ Cl ₂	84.93 g/mol	>99.8

Hazardous ingredients according to WHS Regulations (Australia)

Component	Concentration	Classification
Dichloromethane		
CAS-No 75-09-2 EC-No 200-838-9 EC-Index-No 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), Respiratory system, H335 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336 Specific target organ toxicity - repeated exposure (Category 2), Liver, Blood, Central nervous system, H373

Hazardous ingredients according to Directive 1999/45/EC

Component	Concentration	Classification
Dichloromethane		
CAS-No 75-09-2 EC-No 200-838-9 EC-Index-No 602-004-00-3	>99.8 %	R40 R36/37/38, R67

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

3.2 Stabilized**Amylene**

Synonyms 2-Methyl-2-butene, Trimethylethylene

CAS-No	EC-No	EC-Index-No	Formula	Molecular Weight	Weight %
513-35-9	208-156-3	-	C ₅ H ₁₀	70.14 g/mol	<0.005

Hazardous ingredients according to WHS Regulations (Australia)

Component	Concentration	Classification
Amylene		
CAS-No 513-35-9 EC-No 208-156-3 EC-Index-No -	<0.005%	Flammable liquids (Category 2), H225 Acute toxicity, Oral (Category 4), H302 Skin irritation (Category 2), H315 Germ cell mutagenicity (Category 2), H341 Aspiration hazard (Category 1), H304 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336 Hazardous to the aquatic environment (Chronic Category 2), H411

Hazardous ingredients according to Directive 1999/45/EC

Component	Concentration	Classification
Amylene		
CAS-No 513-35-9 EC-No 208-156-3 EC-Index-No -	<0.005%	F, Highly flammable, R11 Xn, Harmful, R22 R38 N, Dangerous for the environment, R51/53 R65, R67, R68

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

SECTION 4: First aid measures**4.1 Description of first aid measures**

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	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. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Soak up with inert absorbent material (e.g. sand, silica gel). 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. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). 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 at room temperature 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
pH	Neutral at 20°C
Melting point/range	-95 °C
Boiling point/range	40 °C

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 respiratory irritation.

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

May cause damage to organs through prolonged or repeated exposure (Oral) - Liver, Blood

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.

Toxic effect on liver and kidneys.

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

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC ₅₀ P.promelas: 193 mg/l/96h
Toxicity to daphnia and other aquatic invertebrates	EC ₅₀ Daphnia magna: 1682 mg/l/48h
Toxicity to algae	IC ₅₀ Selenastrum capricornutum: >660 mg/l/96h
Toxicity to bacteria	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 (ADG Code)**

UN Number	1593
UN proper shipping name	DICHLOROMETHANE
Transport hazard class(es)	6.1
Hazchem Code	2Z
Packing group	III
Environmental hazards	No
Special precautions for user	Yes

Sea transport (IMDG)

UN Number	1593
UN proper shipping name	DICHLOROMETHANE
Transport hazard class(es)	6.1
Packing group	III
Marine pollutant	No
Special precautions for user	Yes
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 mixture

Regulatory Information	Listed in the Australian Inventory of Chemical Substances (AICS).
Poisons Schedule	S5

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

H225	Highly 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.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H373	May cause damage to organs (Liver, Blood, Central nervous system) through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Full text of R-phrases referred to under sections 2 and 3

F	Highly flammable
Xn	Harmful
N	Dangerous for the environment
R11	Highly flammable.
R22	Harmful if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.
R68	Possible risk of irreversible effects.

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 Code of Practice for the Labelling of Workplace Hazardous Chemicals (Safe Work Australia).
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 Chem – Supply Pty Ltd Ph. (08) 8440 2000.

Revision Date

12/12/2017

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.