Printing date 06/17/2021

Reviewed on 06/17/2021

# **1** Identification

- · Product identifier
- · Trade name: Dichloromethane, Reagent ACS Grade
- Article number: D4653
- · CAS Number:
- 75-09-2 • **EC number:**
- 200-838-9 • Index number:
- 602-004-00-3
- · Restrictions

This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

· Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586

• Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org

• Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666

## 2 Hazard(s) identification

· Classification of the substance or mixture				
GH	IS08 Health	hazard		
Carc. 1B	H350	May cause cancer.		
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.		
Acute Tox. 4	IS07 H302	Harmful if swallowed.		
Skin Irrit. 2		Causes skin irritation.		
Eye Irrit. 2A		Causes serious eye irritation.		
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.		
• Label elements • GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)				



Printing date 06/17/2021

Reviewed on 06/17/2021

Trade name: Dichloromethane, Reagent ACS Grade

(Contd. of page 1) · Hazard pictograms GHS07 GHS08 · Signal word Danger · Hazard statements Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause cancer. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 2Fire = 0Reactivity = 0· HMIS-ratings (scale 0 - 4)

HEALTH2Health = 2FIRE0Fire = 0REACTIVITY0Reactivity = 0

· Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.

(Contd. on page 3)

Printing date 06/17/2021

Reviewed on 06/17/2021

#### Trade name: Dichloromethane, Reagent ACS Grade

· **vPvB:** Not applicable.

(Contd. of page 2)

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

- · Chemical characterization: Substances
- · CAS No. Description
- 75-09-2 Dichloromethane (Methylene Chloride)
- Identification number(s)
- EC number: 200-838-9
- · Index number: 602-004-00-3

### **4** First-aid measures

- · Description of first aid measures
- · General information:
- Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: Immediately call a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

## **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

### **6** Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.

• *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

- · Protective Action Criteria for Chemicals
- PAC-1: 200 ppm
- **PAC-2:** 560 ppm

(Contd. on page 4)

(Contd. of page 3)

## Safety Data Sheet acc. to OSHA HCS

Printing date 06/17/2021

Reviewed on 06/17/2021

Trade name: Dichloromethane, Reagent ACS Grade

· PAC-3: 6,900 ppm

#### 7 Handling and storage

- · Handling:
- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

#### · Control parameters

· Components with limit values that require monitoring at the workplace:

### CAS: 75-09-2 Dichloromethane (Methylene Chloride)

PEL Short-term value: 125 ppm Long-term value: 25 ppm

see 29 CFR 1910.1052

- REL See Pocket Guide App. A
- TLV Long-term value: 174 mg/m<sup>3</sup>, 50 ppm BEI

#### · Ingredients with biological limit values:

CAS: 75-09-2 Dichloromethane (Methylene Chloride)

BEI 0.3 mg/L LD50 Intraperitoneal: urine

Time: end of shift

*LD50: Dichloromethane (semi-quantitative)* 

• Additional information: The lists that were valid during the creation were used as basis.

• Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

- Wash hands before breaks and at the end of work.
- Store protective clothing separately.

Avoid contact with the eyes and skin.

• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

(Contd. on page 5)

US –

(Contd. of page 4)

## Safety Data Sheet acc. to OSHA HCS

Printing date 06/17/2021

Reviewed on 06/17/2021

Trade name: Dichloromethane, Reagent ACS Grade

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  $\cdot$  *Material of gloves* 

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and c	hemical properties	
General Information		
Appearance:	<b>x</b> · · · <b>x</b>	
Form: Color:	Liquid Colorless	
Color: Odor:	Ether-like	
Odor: Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
<b>Boiling point/Boiling range:</b>	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	605 °C (1,121 °F)	
Decomposition temperature:	Not determined.	
Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	13 Vol %	
Upper:	22 Vol %	
Vapor pressure at 20 °C (68 °F):	453 hPa (339.8 mm Hg)	
Density at 20 °C (68 °F):	1.33 g/cm <sup>3</sup> (11.09885 lbs/gal)	

\_\_\_\_\_US

Printing date 06/17/2021

Reviewed on 06/17/2021

#### Trade name: Dichloromethane, Reagent ACS Grade

No further relevant information available.	
Not determined.	
0.43 mPas	
ter): Not determined.	
20 g/l	
Not determined.	
Not determined.	
Not determined.	
	Not determined. Not determined. 20 g/l ter): Not determined. 0.43 mPas

### **10 Stability and reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

### **11 Toxicological information**

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral LD50 500 mg/kg (ATE)

- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) 2A
- · NTP (National Toxicology Program) R
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is listed.

## **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.

(Contd. on page 7)

US

Printing date 06/17/2021

Reviewed on 06/17/2021

### Trade name: Dichloromethane, Reagent ACS Grade

(Contd. of page 6)

- Additional ecological information:
- · General notes:
- Water hazard class 2 (Assessment by list): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

## **13 Disposal considerations**

- · Waste treatment methods
- *Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

· UN-Number · DOT, IMDG, IATA	UN1593	
· UN proper shipping name · DOT · IMDG, IATA	Dichloromethane DICHLOROMETHANE	
• Transport hazard class(es)		
DOT		
TOXIC 8		
· Class · Label	6.1 Toxic substances 6.1	
· IMDG, IATA		
· Class	6.1 Toxic substances	
Label	6.1	
· Packing group · DOT, IMDG, IATA	111	
Environmental hazards: Marine pollutant:	No	
Special precautions for user Hazard identification number (Kemlo	Warning: Toxic substances er code): 60	
(	,	(Contd. on page

Printing date 06/17/2021

Reviewed on 06/17/2021

#### Trade name: Dichloromethane, Reagent ACS Grade

	(Contd. of page 7)
· EMS Number: · Segregation groups · Stowage Category	F-A,S-A Liquid halogenated hydrocarbons A
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
• DOT • Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· Hazardous substance:	1000 lbs, 454 kg
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1593 DICHLOROMETHANE, 6.1, III

### **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture

· Sara

- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is listed.
- · TSCA (Toxic Substances Control Act):

This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

#### ACTIVE

- · Hazardous Air Pollutants Substance is listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- $\cdot$  EPA (Environmental Protection Agency) L
- TLV (Threshold Limit Value) A3
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is listed.
- *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS). *Hazard pictograms*



· Signal word Danger

• Hazard statements Harmful if swallowed. Causes skin irritation.

(Contd. on page 9)

US

Printing date 06/17/2021

Reviewed on 06/17/2021

#### Trade name: Dichloromethane, Reagent ACS Grade

(Cont	td. of page 8)
Causes serious eye irritation.	
May cause cancer.	
May cause respiratory irritation. May cause drowsiness or dizziness.	
May cause damage to organs through prolonged or repeated exposure.	
· Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Call a poison center/doctor if you feel unwell.	
Rinse mouth.	
If on skin: Wash with plenty of water.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and e	easy to do.
Continue rinsing.	-
IF exposed or concerned: Get medical advice/attention.	
Specific treatment (see on this label).	
Get medical advice/attention if you feel unwell.	
Take off contaminated clothing and wash it before reuse.	
If skin irritation occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
Store in a well-ventilated place. Keep container tightly closed.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	
· National regulations:	

• Additional classification according to Decree on Hazardous Materials: Carcinogenic hazardous material group I (extremely dangerous). Carcinogenic hazardous material group II (very dangerous). Carcinogenic hazardous material group III (dangerous).

• Information about limitation of use: Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment protection department.
- · Contact:
- Date of preparation / last revision Revision 0.1, 07-31-2018: Creation date for SDS. STN Revision 1.0 05-07-2021: updated hazard information. STN 06/17/2021 / 1.1
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)

(Contd. on page 10)

<sup>-</sup> US

Printing date 06/17/2021

Reviewed on 06/17/2021

# Trade name: Dichloromethane, Reagent ACS Grade

	(Contd. of page 9)
HMIS: Hazardous Materials Identification System (USA)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
BEI: Biological Exposure Limit	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A	
Carc. 1B: Carcinogenicity – Category 1B	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	
• * Data compared to the previous version altered.	
	115
	03