

Dichlormethane

494453-2L

Version 1.3 Issuing date 12/21/2016 Revision Date 02/21/2018 Print Date 08/07/2019

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Trade name Dichlormethane

Number 000000020387

Recommended use of the chemical and restrictions on

use

Laboratory chemicals

Manufacturer or supplier's

details

Honeywell Specialty Chemicals Seelze

GmbH

Wunstorfer Straße 40 Seelze, 30926

For further information, 1-800-368-0050 please contact: +1-231-726-3171

(Monday-Friday, 9:00am-5:00pm)

In case of emergency call: Medical: 1-800-498-5701 or +1-303-389-1414

Transportation (CHEMTREC): 1-800-424-9300 or +1-703-

527-3887

In Japan: +(81)-345209637 (24 hours/day, 7 days/week)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification of the : Skin irritation, Category 2 substance or mixture Eye irritation, Category 2A Carcinogenicity, Category 2

Specific target organ toxicity - single exposure, Category 3

GHS Label elements, including precautionary statements

Symbol(s)





Signal word : Warning

Hazard statements : Causes skin irritation.

Causes serious eye irritation.



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May cause drowsiness and dizziness.

Suspected of causing cancer.

Precautionary statements : Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and

understood

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face

protection.

Response:

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove victim to fresh air and keep at rest in a

position 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. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : CH2Cl2

Chemical nature : Substance

Chemical nameCAS-No.ConcentrationDichloromethane75-09-2>=99.00 %

Dichloromethane

4. FIRST AID MEASURES

General advice : First aider needs to protect himself.



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Move out of dangerous area.

If unconscious, place in recovery position and seek medical

advice.

Take off all contaminated clothing immediately.

Inhalation : If breathed in, move person into fresh air.

If symptoms persist, call a physician.

Skin contact : After contact with skin, wash immediately with plenty of water.

Consult a physician.

Eye contact : Rinse thoroughly with plenty of water, also under the eyelids.

Protect unharmed eye. Consult a physician.

Ingestion : When swallowed, allow water to be drunk.

Call a physician immediately.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam

Carbon dioxide (CO2)

Water spray Dry powder

Unsuitable extinguishing

media

: Do not use a solid water stream as it may scatter and spread

fire.

Specific hazards during

firefighting

: This product is not flammable at ambient temperatures and

atmospheric pressure.

Exposure to decomposition products may be a hazard to

health.

In case of fire hazardous decomposition products may be

produced such as:

Phosgene Chlorine (Cl2) Carbon monoxide Carbon dioxide (CO2)

Gaseous hydrogen chloride (HCI).

Special protective equipment

for firefighters

Further information

: Wear self-contained breathing apparatus and protective suit.

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Cool containers/tanks with water spray.

Prevent fire extinguishing water from contaminating surface

water or the ground water system.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Evacuate personnel to safe areas.

Wear personal protective equipment. Unprotected persons

must be kept away.

Do not breathe vapours or spray mist.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Do not let product enter drains.

Methods and materials for containment and cleaning up

: Ventilate the area.

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

7. HANDLING AND STORAGE

Handling

Precautions for safe handling : Wear personal protective equipment.

Use only with adequate ventilation.

Do not breathe vapours or spray mist.

Advice on protection against

fire and explosion

: Keep away from heat and sources of ignition. Normal measures for preventive fire protection.

Storage

Conditions for safe storage,

including any incompatibilities

: Store in original container.

Keep containers tightly closed in a dry, cool and well-

ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS- No.	Value	Control parameters	Update	Basis
Dichlorometh ane Dichlorometh ane	75-09-2	TL : Threshold limits	(50 ppm)	04 2009	ISHL:Industrial Safety and Health Law OEL



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	TWA : Time weighted average	170 mg/m3 (50 ppm)	04 2007	Japan Society for Occupational Health:Japan Society for Occupational Health allowable concentration recommendatio n value
	TLV-C : Ceiling Limit Value	340 mg/m3 (100 ppm)	04 2007	Japan Society for Occupational Health:Japan Society for Occupational Health allowable concentration recommendatio n value
	SKIN_DES : Skin designation:	Can be absorbed through the skin.	04 2007	Japan Society for Occupational Health:Japan Society for Occupational Health allowable concentration recommendatio n value

Appropriate engineering controls

Use with local exhaust ventilation.

Individual protection measures, such as personal protective equipment

Respiratory protection : In case of insufficient ventilation wear suitable respiratory

equipment.

Hand protection : Impervious gloves

Gloves must be inspected prior to use.

Replace when worn.



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Eye protection : Safety goggles

Skin and body protection : Impervious clothing

Hygiene measures : Keep working clothes separately.

Take off all contaminated clothing immediately. Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of workday.

Protective measures : Ensure that eyewash stations and safety showers are close to

the workstation location.

Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Avoid exposure - obtain special instructions before use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Colour : colourless

Odour : sweet

Melting point/range : -97 °C

Boiling point/boiling range : 39 - 41 °C at 1,013 hPa

Flash point : Note: Not applicable

Lower explosion limit : 13 %(V)

Upper explosion limit : 22 %(V)

Vapour pressure : 453 hPa

at 20 °C(68 °F)

Density : 1.32 - 1.33 g/cm3 at 20 °C

Water solubility : 20.0 g/l at 20 °C



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Solubility in other solvents : Note: soluble

Partition coefficient: n-

octanol/water

: log Pow: 1.25

Ignition temperature : 605 °C

Decomposition temperature : > 120 °C

Note: Decomposition temperature

Viscosity, dynamic : 0.44 mPa.s at 20 °C

Molecular weight : 84.93 g/mol

10. STABILITY AND REACTIVITY

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Hazardous polymerization does not occur. Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Exposure to sunlight.

Incompatible materials to

avoid

: Alkali metals

Amines

Bases

Alkaline earth metals Powdered metals Strong oxidizing agents

Strong acids

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be

produced such as:

Phosgene Chlorine (Cl2) Carbon monoxide Carbon dioxide (CO2)

Gaseous hydrogen chloride (HCI).



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11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: > 2,000 mg/kg

Species: Rat

Method: OECD Test Guideline 401

Note: No deaths

Acute inhalation toxicity : LC50: 86 mg/l

Species: Mouse

Acute dermal toxicity : LD50: > 2,000 mg/kg

Species: Rat

Method: OECD Test Guideline 402

Skin irritation : Species: Rabbit

Result: Irritating to skin.

Method: OECD Test Guideline 404

Eye irritation : Species: rabbit eye

Result: Irritating to eyes.

Sensitisation : Species: Mouse

Result: non-sensitizing Method: OECD 429

Dichloromethane : Test Method: Ames test

Result: positive

: Test Method: In vitro gene mutation study in mammalian cells

Cell type: Chinese Hamster Ovary Cells

Result: positive

: Test Method: Unscheduled DNA synthesis

Result: positive

Note: Liver cells Mouse

Further information : Note: Confirmed animal carcinogen with unknown relevance

to humans.



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12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish : LC50: 193 mg/l

Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

: LC50: 97 mg/l Exposure time: 48 h Species: Fish

: NOEC: 142 mg/l Exposure time: 28 d

Species: Pimephales promelas (fathead minnow)

Note: mortality

Toxicity to daphnia and other : LC50: 220 mg/l

aquatic invertebrates

Evapoure times 4

Exposure time: 48 h

Species: Daphnia (water flea)

: LC50: 27 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

Toxicity to algae : Note: no data available

Toxicity to bacteria : LC0: 500 mg/l

Species: Pseudomonas putida

: EC50: 2,590 mg/l Exposure time: 40 min Species: activated sludge Method: OECD 209

Persistence and degradability

Biodegradability : Result: Readily biodegradable

Value: 68 %

Method: OECD 301 D

Bioaccumulative potential

Bioaccumulation : Note: No bioaccumulation is to be expected (log Pow <= 4).



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13. DISPOSAL CONSIDERATIONS

Disposal methods : In accordance with local and national regulations.

14. TRANSPORT INFORMATION

ADR

UN/ID No. : UN 1593

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Description of the goods : DICHLOROMETHANE

Class : 6.1

Packing group : III

Classification Code : T1 Hazard Identification Number : 60 Labels : 6.1

IATA

UN/ID No. : UN 1593

Description of the goods : Dichloromethane

Class : 6.1 Packing group : 111 Labels : 6.1 Packing instruction (cargo : 663

aircraft)

Packing instruction : 655

(passenger aircraft)

: Y642 Packing instruction

(passenger aircraft)

IMDG

UN/ID No. : UN 1593
Description of the goods : DICHLOROMETHANE
Class

Class : 6.1 Packing group : 111 Labels : 6.1 EmS Number 1 : F-A EmS Number 2 : S-A

: no Marine pollutant



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15. REGULATORY INFORMATION

National regulatory information

Chemical Substance : Listed

Control Law Type II Monitoring Chemical Substance.

DES (JP) Reference: (2)-36

Chemical Substance : Listed

Control Law Type III Monitoring Chemical Substance.

JP MON3 Reference: (2)-36

Substances Subject to be

Notified Names
JP MSDSD

Threshold Concentration: 0.1 % wt 257

Substances Subject to be

Indicated Names

JPISHL LR

: Article 18

Threshold limits: 1 % wt 14.7

Vessel Safety Law

JP VSL

: Toxic and infectious substances (Article 2 and 3 of rules on

shipping and storage of dangerous goods and its Attached

Table 1)

Aviation Law : Toxic and infectious substances (Article 194 of The

JP AVL Enforcement Rules of Aviation Law and its Attached Table 1)

Fire Service Law : Not relevant

Poisonous and Deleterious Substances Control Law : Not relevant

Act on Confirmation, etc. of Release Amounts of Specific

: Class I Designated Chemical Substances

Chemical Substances in the Environment and Promotion

Environment and Promotion of Improvements to the Management Thereof

Dichloromethane 75-09-2

Other international regulations

Notification status

US. Toxic Substances : On TSCA Inventory

Control Act

Australia. Industrial Chemical : On the inventory, or in compliance with the inventory



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(Notification and Assessment) Act

Canada. Canadian

Environmental Protection Act

(CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the

: On the inventory, or in compliance with the inventory

Korea. Existing Chemicals

Inventory (KECI)

: On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control

Act

: On the inventory, or in compliance with the inventory

China. Inventory of Existing

Chemical Substances

: On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New

Zealand

: On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2*	2
Flammability	: 1	1
Physical Hazard	: 0	
Instability	:	0

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

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 a 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



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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. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group