ZEOCHEM®

S A F E T Y D A T A S H E E T

according to Regulation (EC) No. 1907/2006
(amended by Regulation (EU) 2015/830)

Dichloromethane-d2

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

1.1. Product identifier

Product name	Dichloromethane-d2
CAS-No.	1665-00-5
EC-No.	216-776-0
Product code	None.

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

Use of the Substance/Mixture	Solvent for NMR spectroscopy

1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification	Zeochem AG, www.zeochem.ch Joweid 5, 8630 Rüti, Schweiz Tel.: +41 44 922 93 93 E-Mail: info@zeochem.ch
1.4. Emergency telephone number	Tox-Zentrum Zürich : 145 / +41 44 251 51 51 [24h/7d]
Issuing date	05.10.2018
Version	GHS 4 (Previous versions: GHS 3)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008	Carcinogenicity, Cat. 2, H351
Additional information	For the full text of the phrases mentioned in this Section, see Section 16.

2.2. Label elements

Signal Word	Warning
Hazard Statements	H351: Suspected of causing cancer.
Precautionary statements	P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection. P308 + P313: IF exposed or concerned: Get medical advice/ attention. P405: Store locked up. P501: Dispose of contents/ container to an approved waste disposal plant.
Supplemental information	None.
Product identifier	Dichloromethane-d2, CAS-No. 1665-00-5, EC-No. 216-776-0
2.3. Other hazards	None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

Components		Product identifier
Dichloromethane-d2	> 90%	CAS-No.: 1665-00-5 EC-No.: 216-776-0

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

Hazardous impurities None known.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move to fresh air. Consult a physician after significant exposure.
Skin contact	Wash off with soap and water.
Eye contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion	If conscious, drink plenty of water. Consult a physician if necessary.

4.2. Most important symptoms and effects, both acute and delayed	None known.
4.3. Indication of any immediate medical attention and special treatment needed	None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use dry chemical, CO2, water spray or alcohol foam.
Extinguishing media which must not be used for safety reasons	High volume water jet.
5.2. Special hazards arising from the substance or mixture	No data is available on the product itself.

5.3. Advice for firefighters

Special protective equipment for firefighters	Standard procedure for chemical fires.
Specific methods	No special measures required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel	No special measures required.
Advice for emergency responders	Handle in accordance with good industrial hygiene and safety practice.
6.2. Environmental precautions	Do not flush into surface water or sanitary sewer system.
6.3. Methods and material for containment and cleaning up	Clean up promptly by sweeping or vacuum. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Provide sufficient air exchange and/or exhaust in work rooms.
7.2. Conditions for safe storage, including any incompatibilities	Store at room temperature in the original container.

7.3. Specific end use(s) No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s) MAK (Maximale Arbeitsplatzkonzentration): 50 ppm.

8.2. Exposure controls

Appropriate engineering controls Avoid contact with skin, eyes and clothing.

Personal protection equipment

Respiratory protection In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection Gloves made of VITON.

Eye protection Safety glasses.

Skin and body protection No special measures required.

Thermal hazards No special measures required.

Environmental exposure controls No special measures required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless.
Odour	Sweet.
Odour Threshold	Not determined.
pH:	n.a.
Melting point/range:	-97°C
Boiling point/range:	40°C
Flash point:	n.a.
Evaporation Rate:	Not determined.
Flammability:	Not determined.
Explosion limits:	Not determined.
Vapour pressure:	476 mbar (20°C)
Vapor density:	2.93
Relative density:	1.36 g/ml
Water solubility:	20 g/ (20°C)
Partition coefficient (n-octanol/water):	1.25
Autoignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Viscosity:	Not determined.

Explosive properties:	not hazardous
Oxidising properties:	None

9.2. Other information

General Product Characteristics	No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	No information available.
10.2. Chemical stability	No decomposition if used as directed.
10.3. Possibility of hazardous reactions	No information available.
10.4. Conditions to avoid	Do not freeze. Heating in air.
10.5. Incompatible materials	Strong oxidizers, alkali metals and alkaline earth metals may cause fires or explosions.
10.6. Hazardous decomposition products	None under normal use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	LD50/oral/rat = 1600 mg/kg.
Skin corrosion/irritation	No data available.
Serious eye damage/eye irritation	No data available.
Respiratory / Skin Sensitisation	No data available.
Carcinogenicity	Possible carcinogen.
Germ cell mutagenicity	In vitro tests showed mutagenic effects.
Reproductive toxicity	Classification not possible from current data.
Specific target organ toxicity (single exposure)	No data available.
Specific target organ toxicity (repeated exposure)	No data available.
Aspiration hazard	No data available.
Human experience	No data available.

SECTION 12: Ecological information

12.1. Toxicity	EC50/48h/daphnia = 220 mg/l. LC50/48h/golden orfe = 528 mg/l. EC50/72h/algae = 2300 mg/l. IC50 / Toxicity to bacteria: 315 mg/l.
12.2. Persistence and degradability	Biological degradability 100 %.
12.3. Bioaccumulative potential	No data available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	No information available.
12.6. Other adverse effects	No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products	Dispose of as hazardous waste in compliance with local and national regulations.
Contaminated packaging	No information available.

SECTION 14: Transport information

ADR/RID

UN 1593.
Proper shipping name: DICHLOROMETHANE.
Class 6.1.
Packing group III.
ADR/RID-Labels 6.1.
Classification code T1.
Hazard identification no. 60.
Limited quantity 5 L.
Excepted quantity E1.
Tunnel restriction code E

IMDG

UN 1593.
Proper shipping name: DICHLOROMETHANE.
Class 6.1.
Packing group III.
IMDG-Labels 6.1.
Limited quantity 5 L.
Excepted quantity E1.
EmS F-A, S-A.
Marine pollutant: No.

IATA	UN 1593. Proper shipping name: Dichloromethane. Class 6.1. Packing group III. IATA label 6.1. Packing instruction (passenger aircraft): 655 (60 L). Packing instruction (LQ): Y642 (2 L). Packing instruction (cargo aircraft): 663 (220 L).
Inland navigation ADN	UN 1593. Proper shipping name: DICHLOROMETHANE. Class 6.1. Packing group III. ADN labels 6.1. Classification code T1. Limited quantity 5 L. Excepted quantity E1.
Further Information	None.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulatory Information	The product is classified and labelled according to Regulation (EC) No. 1272/2008.
15.2. Chemical safety assessment	Not required.

SECTION 16: Other information

Key or legend to abbreviations and acronyms	CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS) MAK: Occupational exposure limit.
Full text of phrases referred to under sections 2 and 3	H351: Suspected of causing cancer.
Further information	Take notice of the directions of use on the label.
Disclaimer	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. It is not to be considered a warranty or quality specification.