

SAFETY DATA SHEET

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

Dimethylformamide-d7

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name	Dimethylformamide-d7
CAS-No.	4472-41-7
EC-No.	224-745-8
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
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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
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1.4. Emergency telephone number	Tox-Zentrum Zürich : 145 / +41 44 251 51 51 [24h/7d]
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Issuing date	05.10.2018
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Version	GHS 4 (Previous versions: GHS 3)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Serious eye damage/eye irritation, Cat. 2, H319
Reproductive toxicity, Cat. 1B, H360
Acute toxicity, dermal, Cat. 4, H312
Acute toxicity, inhal., Gases, Cat. 4, H332
Flammable liquids, Cat. 3, H226

Additional information

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

2.2. Label elements



Signal Word

Danger

Hazard Statements

H226: Flammable liquid and vapour.
H312+H332: Harmful in contact with skin or if inhaled.
H319: Causes serious eye irritation.
H360: May damage fertility or the unborn child.

Precautionary statements

P264a: Wash skin thoroughly after handling.
P280c: Wear protective gloves/ eye protection/ face protection.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/ attention.

Supplemental information

None.

Product identifier

Dimethylformamide-d7, CAS-No. 4472-41-7, EC-No. 224-745-8

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

Components		Product identifier
Dimethylformamide-d7	> 90%	CAS-No.: 4472-41-7 EC-No.: 224-745-8

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.
Skin contact	Wash with water and soap as a precaution.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Ingestion	Clean mouth with water and drink afterwards plenty of water.

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, CO ₂ , 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). After cleaning, flush away traces with water.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No special technical protective measures required.

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): 5 ppm.

8.2. Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing.

Personal protection equipment

Respiratory protection

No special protective equipment required.

Hand protection

Gloves made of Nitril.

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

Mild.

Odour Threshold

Not determined.

pH:

Not determined.

Melting point/range:

-61°C

Boiling point/range:	153°C
Flash point:	58°C
Evaporation Rate:	Not determined.
Flammability:	Not determined.
Explosion limits:	16% / 2.2%
Vapour pressure:	3.77 mbar (20°C)
Vapor density:	2.52
Relative density:	1.05 g/ml
Water solubility:	completely soluble
Partition coefficient (n-octanol/water):	-1.01
Autoignition temperature:	440°C
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	Incompatible with strong acids and bases. Alkaline metals.
10.6. Hazardous decomposition products	None under normal use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	LD50/oral/rat = 2800 mg/kg. LD50/dermal/rabbit = 4720 mg/kg.
Skin corrosion/irritation	No data available.
Serious eye damage/eye irritation	No data available.
Respiratory / Skin Sensitisation	None.
Carcinogenicity	Carcinogenicity classification not possible from current data.
Germ cell mutagenicity	Classification not possible from current data.

Reproductive toxicity	May damage fertility or the unborn child.
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 = 13000 mg/l. LC50/96h/fish = 10500 mg/l.
12.2. Persistence and degradability	Readily biodegradable.
12.3. Bioaccumulative potential	Does not bioaccumulate.
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	Can be used without re-conditioning. Can be incinerated, when in compliance with local regulations.
Contaminated packaging	Offer rinsed packaging material to local recycling facilities.

SECTION 14: Transport information

ADR/RID	UN 2265. Proper shipping name: N,N-DIMETHYLFORMAMIDE. Class 3. Packing group III. ADR/RID-Labels 3. Classification code F1. Hazard identification no. 30. Limited quantity 5 L. Excepted quantity E1. Tunnel restriction code D/E
IMDG	UN 2265. Proper shipping name: N,N-DIMETHYLFORMAMIDE. Class 3. Packing group III. IMDG-Labels 3. Limited quantity 5 L. Excepted quantity E1. EmS F-E, S-D. Marine pollutant: No.
IATA	UN 2265. Proper shipping name: N,N-dimethylformamide. Class 3. Packing group III. IATA label 3. Packing instruction (passenger aircraft): 355 (60 L). Packing instruction (LQ): Y344 (10 L). Packing instruction (cargo aircraft): 366 (220 L).
Inland navigation ADN	UN 2265. Proper shipping name: N,N-DIMETHYLFORMAMIDE. Class 3. Packing group III. ADN labels 3. Classification code F1. 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.
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15.2. Chemical safety assessment	Not required.
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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

H226: Flammable liquid and vapour.
H312: Harmful in contact with skin.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H360: May damage fertility or the unborn child.

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.