



according to Regulation (EC) No 1907/2006

Revision date: 19.02.2025	renzlösung Naphthalin R 7,0 mg/l Product code: 3364		Page 1 of 1
SECTION 1: Identification of t	ne substance/mixture and of the cor	npany/undertaking	
1.1. Product identifier Referenzlösung Naphthalin	R 7,0 mg/l in Dimethylsulfoxid R		
1.2. Relevant identified uses of th	e substance or mixture and uses advise	ed against	
	ostances as such or in preparations at indu omain (administration, education, entertair		
Uses advised against Do not use for private purpo	oses (household).		
1.3. Details of the supplier of the			
Company name:	AnalytiChem GmbH ACD		
Street: Place:	Stempelstraße 6 D-47167 Duisburg		
Telephone: E-mail:	0203/5194-0 info@analytichem.de	Telefax: 0203/5194-290	
Contact person: E-mail: Internet: Responsible Department:	Abteilung Produktsicherheit produktsicherheit@analytichem.de www.analytichem.de Abteilung Produktsicherheit	Telephone:0203/5194-107/117	
1.4. Emergency telephone number:	Exposure, or Accident Call CHEMT	rous Goods] Incidents Spill, Leak, Fire, REC Day or Night Within USA and Canada Canada: +1 703-741-5970 (collect calls	:

This product is a mixture. REACH Registration Number see section 3.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name	Chemical name			
	EC No	Index No	REACH No		
Classification (Regulation (EC) No 1272/2008)					
67-68-5	dimethyl sulfoxide				
	200-664-3		01-2119431362-50		

Full text of H and EUH statements: see section 16.



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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name			
	Specific Conc. Limits, M-factors and ATE				
67-68-5	200-664-3	dimethyl sulfoxide	95 - < 100 %		
dermal: LD50 = ca. 40000 mg/kg; oral: LD50 = 28300 mg/kg					

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air.

After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth immediately and drink plenty of water. Water, to which activated charcoal may be added Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Headache Gastrointestinal complaints Irritant

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2) Foam Extinguishing powder

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquids Hazardous combustion products In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide Sulphur oxides In case of warming: Vapours are heavier than air, spread along floors and form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters



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In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Consult an expert Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Do not breathe vapour/aerosol. Provide adequate ventilation.

Advice on protection against fire and explosion

Take action to prevent static discharges.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.



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Wash hands and face before breaks and after work and take a shower if necessary.

When using do not eat or drink.

Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

Further information on handling

Take off immediately all contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Store in a cool dry place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect against:

Heat

Hints on joint storage

No data available

Further information on storage conditions

Protect from sunlight. storage temperature +5°C - +30°C

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
67-68-5	dimethyl sulfoxide					
Worker DNEL	, long-term	inhalation	systemic	484 mg/m³		
Worker DNEL	, long-term	inhalation	local	265 mg/m³		
Worker DNEL	, long-term	dermal	systemic	200 mg/kg bw/day		
Consumer DN	EL, long-term	inhalation	systemic	120 mg/m³		
Consumer DN	EL, long-term	inhalation	local	47 mg/m³		
Consumer DN	EL, long-term	dermal	systemic	100 mg/kg bw/day		
Consumer DN	EL, long-term	oral	systemic	60 mg/kg bw/day		

PNEC values

CAS No	Substance		
Environmental compartment Value			
67-68-5	dimethyl sulfoxide		
Freshwater 17 mg/l			
Marine water		1,7 mg/l	
Freshwater sediment 13,4 mg/k			
Secondary poisoning 700 r			
Micro-organisms in sewage treatment plants (STP)		11 mg/l	
Soil		3,02 mg/kg	



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8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles Face protection umbrella

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 720 Camapren® Recommended material: CR (polychloroprene, chloroprene rubber) 0,65 mm Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation:KCL 720 Camapren®Recommended material:CR (polychloroprene, chloroprene rubber) 0,65 mmWearing time with occasional contact (splashes):> 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear full chemical protective clothing.

Take off immediately all contaminated clothing and wash it before reuse.

Wear suitable protective clothing. Take off immediately all contaminated clothing.

Wash hands and face before breaks and after work and take a shower if necessary.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols. The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:

Liquid



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Colour:	colourless	
Odour:	characteristic	
Odour threshold:	No data available	
Melting point/freezing point:	18,5 °C	
Boiling point or initial boiling point a boiling range:		
Flammability:	No data available	
Lower explosion limits:	1,8 vol. %	
Upper explosion limits:	63 vol. %	
Flash point:	87 °C	
Auto-ignition temperature:	300-302 °C	
Decomposition temperature:	>190 °C	
Viscosity / kinematic:	2,14 mm²/s	
(at 20 °C)	2,141111/3	
Water solubility:	1000 g/l	
5	1000 g/i	
(at 20 °C)		
Solubility in other solvents		
No data available		
Partition coefficient n-octanol/water	0	
Vapour pressure:	0,6 hPa	
(at 20 °C)		
Vapour pressure:	No data available	
Density:	1,104 g/cm³	
Bulk density:	No data available	
Relative vapour density:	No data available	
2. Other information		
Information with regard to physic	al hazard classes	
Explosive properties		
In case of warming:		
5	pread along floors and form explosive mixtures with air.	
Sustaining combustion:	Sustaining combustion	
Self-ignition temperature		
Solid:	No data available	
Gas:	No data available	
Oxidizing properties		
No data available		
Other safety characteristics		
Evaporation rate:	No data available	
Solvent separation test:	No data available	
Solvent content:	No data available	
Solid content:	No data available	
Sublimation point:	No data available	
Softening point:	No data available	
Pour point:	No data available	
	No data available	
Viscosity / dynamic:	2,14 mPa·s	
(at 20 °C)		
Flow time:	No data available	
Further Information		
No data available		



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10.1. Reactivity

In case of warming: Vapours may form explosive mixtures with air.

10.2. Chemical stability

Protect against: Humidity

10.3. Possibility of hazardous reactions

Oxidising agent Strong acid Acid chlorides, inorganic Nitric acid Acid halides Reducing agent Acid chlorides, inorganic permanganates, e.g. potassium permanganate

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

plastic Metal

10.6. Hazardous decomposition products

SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution

No data available

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
67-68-5	dimethyl sulfoxide							
	oral	LD50 mg/kg	28300		Toxicol. Appl. Pharmacol. 7: 104-112 (19	OECD Guideline 401		
	dermal	LD50 mg/kg	ca. 40000		,	Rats were immersed in a DMSO solution		

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction



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Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

No data available

11.2. Information on other hazards

Other information

Liver and kidney damage

Further information

Headache Gastrointestinal complaints Irritant

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
67-68-5	dimethyl sulfoxide						
	Acute fish toxicity	LC50 mg/l	34000	96 h	Pimephales promelas	Center for Lake Superior Environmental S	
	Acute algae toxicity	ErC50 mg/l	17000	72 h	Pseudokirchneriella subcapitata	Study report (2009)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	24600	48 h	Daphnia magna	Bull Environ Contam Toxicol, 70, 1264-12	OECD Guideline 202
	Acute bacteria toxicity	EC50 mg/l()	10 - 100		activated sludge, domestic	Study report (1990)	ISO 8192

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-68-5	dimethyl sulfoxide	-1,35



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CAS No	Chemical name	BCF	Species	Source
67-68-5	dimethyl sulfoxide	3,16		EPI Suite, Version 3

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

Avoid release to the environment.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not allow to enter into surface water or drains.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

14.1. UN number or ID number:

Land transport (ADR/RID)

14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Inland waterways transport (ADN) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Marine transport (IMDG) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name:

14.3. Transport hazard class(es): 14.4. Packing group:

14.5. Environmental hazards

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

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ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to Directive Not subject to 2012/18/EU (SEVESO III)

2012/18/EU (SEVESO III):

Water hazard class (D):

1 - slightly hazardous to water

SECTION 16: Other information

National regulatory information

Changes

This data sheet contains changes from the previous version in section(s): 1,3,4,5,6,7,8,9,12,13.

Further Information

Provide appropriate information, instructions and training to users

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)