

Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)



Revision date 30.10.2019

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Version 2

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

1.1 Product identifier

1.2 Relevant identified uses of the substance or mixture and uses advised against TK.911018

Generic name Dimethyl Sulfoxide AcS Grade

REACH No.

CAS No. 67-68-5

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

Relevant identified uses Use as laboratory reagent.

Use of the substance / mixture

Uses advised against

Details of the supplier of the safety data sheet

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SECTION 2: Hazards identification

Classification of the substance or mixture

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

Full text of R-, H- and EUH-phrases: see section 16.

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2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

Signal word

Hazard Statements

Precautionary Statements

Prevention

Response

Storage

2.3 Other hazards

SECTION 3: Composition/information on ingredients

Substances

Formula (CH₃)₂SO C₂H₆OS (Hill)

EC No. 200-664-3

Molar mass 78,13 g/mol

<u>Characteristic</u>	<u>CAS No</u>	<u>EC No</u>	<u>Concentration</u>	<u>Classification</u>
Dimethyl Sulfoxide Acs Grade	67-68-5	200-664-3		

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

Description of first aid measures

General information In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible)..

Following inhalation Remove casualty to fresh air and keep warm and at rest..

Following skin contact Subsequently wash off with:.

Following eye contact In case of contact with eyes, rinse immediately thoroughly with plenty of edible oil and consult an ophthalmologist..

Following ingestion Please give up to two glasses of water. Get immediate medical attention..

Most important symptoms and effects, both acute and delayed

Allergic reactions. Nausea. Headache.

Indication of any immediate medical attention and special treatment needed

No information available..

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water. Foam. Dry extinguishing powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Water spray jet.

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated:.. Flammable. Heavy vapors in the air at the ground surface may occur.. It can create explosive mixtures with air on intense heating. Sulphur oxides.

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control..

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Don't breathe vapours,aerosols.Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures,consult an expert..

6.2 Environmental precautions

Do not allow to enter into surface water or drains..

6.3 Methods and material for containment and cleaning up

Close drainage channels.Take up with liquid-absorbent material.Clean the affected area.

6.4 Reference to other sections

Disposal: see section 13.

6.5 Additional information

Clear spills immediately..

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Observe label precautions. Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Measures to prevent fire

Advices on general occupational hygiene

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7.2 Conditions for safe storage, including any incompatibilities

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Technical measures and storage conditions

7.3 Specific end uses

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values

8.2 Exposure controls

Appropriate engineering controls

Fresh air (open windows and doors) is necessary..

Personal protection equipment

Eye/face protection

Safety glasses

Hand protection

Full contact:

Material of gloves: polychloroprene

Glove thickness: 0.65 mm

Puncture time:> 480 minutes

Contact with splash:

Glove material: natural latex

Glove thickness: 0,6 mm

Puncture time:> 240 minutes

The protective gloves to be used comply with the specifications of EC directive 89/686

Other skin protection

Protective clothing

Respiratory protection

required when vapors / aerosols are formed.

Recommended Filter Type: Filter A (according to DIN 3181),

Environmental exposure controls

See section 7. Additional information about obligations under the common European environment protection regulations:.

SECTION 9: Physical and chemical Properties

Information on basic physical and chemical properties

Physical state	Liquid
Colour	colourless
Odour	characteristic
Odour threshold	no information
pH value	no information 0 g/l
Melting point/freezing point	18,5 °C
Freezing point	no information

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Initial boiling point and boiling range	189 °C at 1.013 hPa
Flash point	87 °C
Evaporation rate	no information
Flammability (solid, gas)	This product is not flammable °C
Upper/lower flammability or explosive limits	1,8 %(V)
Upper/lower flammability or explosive limits	63,0 %(V)
Vapour pressure	0,6 hPa 20 °C
Vapour density	2,7
Density	1,10 g/cm ³ 20 °C
Relative density	no information
Water solubility (g/l)	1.000 g/l at 20 °C °C
Fat solubility (g/l)	no information °C
Partition coefficient: n-octanol/water	log Pow: -1.35 (experimental) (Lit.) Bioaccumulation is not expected.
Auto-ignition temperature	300 - 302 °C
Decomposition temperature	> 190 °C

Viscosity

Kinematic viscosity	2,14 mPa.s at 20 °C
Dynamic viscosity	2,14 mm ² /s
Explosive properties	Not classified as explosive.
Oxidising properties	None

SECTION 10: Stability and Reactivity

10.1 Reactivity

Vapours may form explosive mixtures with air.

10.2 Chemical stability

hygroscopic.

10.3 Possibility of hazardous reactions

There is a risk of explosion with:
Acetylidene, organic halides, perchlorates, Acid chlorides, nonmetal halides, iron (III) compounds, nitrates, fluorides, chlorates, hydrides, perchloric acid, Phosphorus oxides, Nitric acid, silver compounds, silicone compounds, silanes, acid halides
Exothermic

10.4 Conditions to avoid

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10.5 Incompatible materials

Various plastics. Various metals.

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10.6 Hazardous decomposition products

No known hazardous decomposition products..

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity
LD50 Rat: 28,300 mg / kg
OECD Test Guideline 401
Acute inhalation toxicity
LC0 Rat:> 5.33 mg / l; 4 h; dust / mist
OECD Test Guideline 403

11.2 Additional information

Possible symptoms:
After receiving:
CNS disorders, Nausea, Fatigue, Headache
Damage of ...
Liver, Kidney
However, harmful effects are unlikely if the product is handled appropriately.
Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish
static test LC50 Danio rerio (zebrafish):> 25.000 mg / l; 96 h
OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates
static test EC50 Daphnia magna (Water flea): 24.600 mg / l; 48 h
Analytical observation: yes
OECD Test Guideline 202

12.2 Persistence and degradability

Biodegradation
31%; 28 g; aerobic
OECD Test Guideline 301D
Not readily soluble in nature.

12.3 Bioaccumulative potential

Partition coefficient (n-octanol / water)
log Pow: -1.35
(experimental)
(Lit.) Bioaccumulation is not expected.

12.4 Mobility in soil

No information

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB

12.6 Other adverse effects

Discharge into environment must be avoided

SECTION 13: Disposal considerations

Waste treatment methods

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It must be disposed of in accordance with national and local regulations. Do not mix with other products. It was to proceed as their products uncleaned packaging. Atyk Maddeler.

SECTION 14: Transport information

Land transport (ADR/RID)

UN number

UN proper shipping name Hazardous materials class according to transport regulations

Transport hazard class(es)

Packing group

Environmental hazards

Special precautions for

Tunnel restriction code

Inland waterway transport (ADN)

Limited quantity (LQ)

Special Provisions

Category

Air transport (ICAO-TI / IATA-DGR)

UN number

UN proper shipping name Hazardous materials class according to transport regulations

Transport hazard class(es)

Packing group

Environmental hazards

Special precautions for

Sea transport (IMDG)

UN number

UN proper shipping name Hazardous materials class according to transport regulations

Transport hazard class(es)

Packing group

Environmental hazards

Special precautions for

SECTION 15: Regulatory information

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

Storage class : 10-13

Chemical Safety Assessment

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SECTION 16: Other information

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Relevant R-, H- and EUH-phrases (Number and full text)

Prepared the Document

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