

Safety Data Sheet

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



Revision date 01.11.2019

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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.930134

Generic name Formamide for Synthesis

REACH No.

CAS No. 75-12-7

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]

Carc. 2

Repr. 1B

Specific target organ toxicity (repeated exposure)

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

Danger

Hazard Statements

H360 May damage fertility or the unborn child.
H351 Suspected of causing cancer.
H373 May damage to organs through prolonged or repeated exposure

Precautionary Statements

Prevention

P201 Obtain special instructions before use.

Response

Get medical advice/attention if you feel unwell.

Storage

2.3 Other hazards

SECTION 3: Composition/information on ingredients

Substances

Formula	HCONH2 CH3NO (Hill)			
EC No.	200-842-0			
Molar mass	45,04 g/mol			
<u>Characteristic</u>	<u>CAS No</u>	<u>EC No</u>	<u>Concentration</u>	<u>Classification</u>
Formamide for Synthesis	75-12-7	200-842-0	(<= 100 %)	;4:H3514:H3604:H373

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

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No known symptoms to date..

Indication of any immediate medical attention and special treatment needed

No information available..

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. It can create explosive mixtures with air on intense heating. In case of fire hazardous combustion gases or vapors may occur.. Hydrogen cyanide (hydrocyanic acid). Nitrogen oxide.

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

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Advices on general occupational hygiene

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7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

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7.3 Specific end uses

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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:

Glove material: natural latex

Glove thickness: 0,6 mm

Puncture time:> 480 minutes

Contact with splash:

Glove material: Nitrile rubber

Glove thickness: 0.11 mm

Puncture time:> 240 minutes

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

Other skin protection

Protective chlothing

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	Ammonia
Odour threshold	no information

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pH value	8 - 10 200 g/l 20 °C
Melting point/freezing point	2 °C
Freezing point	no information
Initial boiling point and boiling range	210 °C at 1.013 hPa
Flash point	175 °C
Evaporation rate	no information
Flammability (solid, gas)	no information °C
Upper/lower flammability or explosive limits	2,7 %(V)
Upper/lower flammability or explosive limits	19,0 %(V)
Vapour pressure	0,32 hPa at 50 °C
Vapour density	1,56
Density	1,13 g/cm ³ at 20 °C
Relative density	no information
Water solubility (g/l)	at 20 °C soluble °C
Fat solubility (g/l)	no information °C
Partition coefficient: n-octanol/water	log Pow: -0.82 (25 °C) OECD Test Guideline 107 Bioaccumulation is not expected.
Auto-ignition temperature	500 °C Metod :DIN 51794.
Decomposition temperature	> 180 °C

Viscosity

Kinematic viscosity	3.75 mPa.s at 20 °C
Dynamic viscosity	no information
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

Sensitive to light.

10.3 Possibility of hazardous reactions

Exothermic reaction with:

Oxidizing agents, bases

There is a risk of explosion with:

furfuryl alcohol, Phosphorus oxides, hydrogen peroxide

Iodine with pyridine and sulfur tri oxide

There is a risk of explosion and / or toxic gas formation with the following substances:

water separation agents

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10.4 Conditions to avoid

Not information.

10.5 Incompatible materials

Not information..

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: about 5.325 mg / kg
OECD Test Guideline 401
Acute inhalation toxicity
LC50 Rat:> 21 mg / l; 4 h; vapor
OECD Test Guideline 403

11.2 Additional information

Possible effect after contact with substance:
ataxia (weakened movement coordination)
Absorption causes damage to:
Liver, Kidney
Other dangerous properties cannot be excluded.
Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish
LC50 Leuciscus idus (Golden orfe): 4.600 - 9.300 mg / l; 96 h
DIN 38412 part 15
Toxicity to daphnia and other aquatic invertebrates
EC50 Daphnia magna (Water flea):> 500 mg / l; 48 h
(IUCLID)
Toxicity to algae
static test EC50 Desmodesmus subspicatus (green moss):> 500 mg / l

12.2 Persistence and degradability

Biodegradation
99%; 28 g; aerobic
OECD Test Guideline 301A
Readily biodegradable.

12.3 Bioaccumulative potential

Partition coefficient (n-octanol / water)
log Pow: -0.82 (25 ° C)
OECD Test Guideline 107
Bioaccumulation is not expected.

12.4 Mobility in soil

Distribution in environmental environments
log Koc: 1,101
(Calculated)
(IUCLID) Mobile.

12.5 Results of PBT and vPvB assessment

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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

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. Atık Maddeler.

SECTION 14: Transport information

Land transport (ADR/RID)

UN number Hazardous materials class according to transport regulations

UN proper shipping name

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 Hazardous materials class according to transport regulations

UN proper shipping name

Transport hazard class(es)

Packing group

Environmental hazards

Special precautions for

Sea transport (IMDG)

UN number Hazardous materials class according to transport regulations

UN proper shipping name

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

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Storage class : 6.1C

Chemical Safety Assessment

SECTION 16: Other information

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

H360 May damage fertility or the unborn child.
H351 Suspected of causing cancer.
H373 May damage to organs through prolonged or repeated exposure
P201 Obtain special instructions before use.
Get medical advice/attention if you feel unwell.

Prepared the Document

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