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# SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

Version 8.2 Revision Date 16.08.2023 Print Date 25.04.2025 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

1.1	Product identifiers Product name	Acetamide	
	Product Number Brand Index-No. REACH No.	A0500 Sigma-Aldrich 616-022-00-4 A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.	
	CAS-No.	60-35-5	
1.2	2 Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses	Laboratory chemicals, Manufacture of substances	
13	Details of the supplier	f the safety data sheet	

# **1.3 Details of the supplier of the safety data sheet** Company :

1.4	Emergency telephone		
	Emergency Phone #	:	+(44)-870-8200418 (CHEMTREC (GB)) +(353)-19014670 (CHEMTREC Ireland) 001-803-017-9114 (CHEMTREC India)

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008** Carcinogenicity (Category 2), H351

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 2.2 Label elements

# Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal Word

Warning

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Hazard statement(s) H351	Suspected of causing cancer.
Precautionary statement(s)	
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 Hazard Statements	none

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Synonyms : Amide C2			
Formula Molecular weight CAS-No. EC-No. Index-No.	: C₂H₅NO : 59.07 g/mol : 60-35-5 : 200-473-5 : 616-022-00-4		
Component		Classification	Concentration
Acetamide			
CAS-No. EC-No. Index-No.	60-35-5 200-473-5 616-022-00-4	Carc. 2; H351	<= 100 %

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For the full text of the H-Statements mentioned in this Section, see Section 16.

# SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

#### **General advice**

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Call in physician.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**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 Water Foam Carbon dioxide (CO2) Dry powder

#### **Unsuitable extinguishing media** For this substance/mixture no limitations of extinguishing agents are given.

#### 5.2 Special hazards arising from the substance or mixture

Carbon oxides Nitrogen oxides (NOx) Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

#### 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

#### 5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## **SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures** Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

- **6.3 Methods and materials for containment and cleaning up** Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
- **6.4** Reference to other sections For disposal see section 13.

## SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

#### Advice on safe handling

Work under hood. Do not inhale substance/mixture.

#### **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Tightly closed. Dry. Keep locked up or in an area accessible only to qualified or authorized persons.

Moisture sensitive.

#### Storage class

Storage class (TRGS 510): 11: Combustible Solids

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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#### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Ingredients with workplace control parameters

#### 8.2 Exposure controls

#### Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

#### **Skin protection**

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 EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact

Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

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 EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet; www.kcl.de).

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

#### **Body Protection**

protective clothing

#### **Respiratory protection**

Recommended Filter type: Filter A-(P3)

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.

#### **Control of environmental exposure**

Do not let product enter drains.

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## **SECTION 9:** Physical and chemical properties 9.1 Information on basic physical and chemical properties

information on basic physical and chemical properties				
a)	Physical state	crystalline		
b)	Color	colorless, white		
c)	Odor	No data available		
d)	Melting point/freezing point	Melting point/range: 78 - 80 °C - lit.		
e)	Initial boiling point and boiling range	221 °C - lit.		
f)	Flammability (solid, gas)	No data available		
g)	Upper/lower flammability or explosive limits	No data available		
h)	Flash point	Not applicable		
i)	Autoignition temperature	No data available		
j)	Decomposition temperature	No data available		
k)	рН	No data available		
I)	Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available		
m)	Water solubility	No data available		
n)	Partition coefficient: n-octanol/water	log Pow: < 0.3 at 25 °C - OECD Test Guideline 117 - Bioaccumulation is not expected.		
o)	Vapor pressure	1.61 hPa at 20 °C - OECD Test Guideline 104		
p)	Density	1.159 g/cm3 at 20 °C		
	Relative density	No data available		
q)	Relative vapor density	No data available		
r)	Particle characteristics	No data available		

- s) Explosive properties No data available
- t) Oxidizing properties none
- 9.2 Other safety information No data available

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# **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

## **10.2 Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature) .

## **10.3** Possibility of hazardous reactions

Exothermic reaction with: Strong oxidizing agents strong reducing agents Strong acids bases

- **10.4 Conditions to avoid** no information available
- **10.5 Incompatible materials** No data available
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

#### Acute toxicity

Oral: No data available Inhalation: No data available Dermal: No data available

#### Skin corrosion/irritation

Skin - reconstructed human epidermis (RhE) Result: No skin irritation - 1 h (OECD Test Guideline 439)

#### Serious eye damage/eye irritation

Eyes - Bovine cornea Result: No eye irritation - 4 h (OECD Test Guideline 437)

#### Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test Guideline 429)

#### Germ cell mutagenicity

Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471

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Result: negative

Carcinogenicity

Suspected of causing cancer.

**Reproductive toxicity** No data available

**Specific target organ toxicity - single exposure** No data available

**Specific target organ toxicity - repeated exposure** No data available

#### **Aspiration hazard** No data available

#### **11.2 Additional Information**

## **Endocrine disrupting properties**

## Product:

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## RTECS: AB4025000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Handle in accordance with good industrial hygiene and safety practice.

# SECTION 12: Ecological information

# **12.1 Toxicity**

Toxicity to fish static test LC50 - Gambusia affinis (Mosquito fish) - 13,300 mg/l -96 h Remarks: (ECOTOX Database)

#### **12.2 Persistence and degradability** Biodegradability aerobic -

aerobic - Exposure time 28 d Result: 64.9 % - Readily biodegradable. (OECD Test Guideline 301D)

**12.3 Bioaccumulative potential** No data available

# 12.4 Mobility in soil

No data available

#### **12.5 Results of PBT and vPvB assessment** This substance/mixture contains no components considered to be either persistent,

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bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Endocrine disrupting properties <u>Product:</u>

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### **12.7 Other adverse effects**

No data available

SECTION 13: Disposal considerations					
13.1	Waste tre No data av	eatment methods /ailable			
SECT	TION 14: T	ransport informat	ion		
14.1	<b>UN numb</b> ADR/RID:	••	IMDG:	-	IATA: -
14.2		5 5	ds		
14.3	Transport ADR/RID:	t hazard class(es) -	IMDG:	-	IATA: -
14.4	Packagin ADR/RID:		IMDG:	-	IATA: -
14.5	<b>Environm</b> ADR/RID:	e <b>ntal hazards</b> no	IMDG I	Marine pollutant: no	IATA: no
14.6	Special p	recautions for use	r		
	Further in	nformation			

Not classified as dangerous in the meaning of transport regulations.

## **SECTION 15: Regulatory information**

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

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#### Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

#### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

# **SECTION 16: Other information**

#### Full text of H-Statements referred to under sections 2 and 3.

H351 Suspected of causing cancer.

#### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM -American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. -Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS -Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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#### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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