Safety data sheet

Acrylamide

Product name Acrylamide	Catalog no. ACR01, ACR05
Synonyms -	SDS revision -
CAS no. 79-06-1	Format version / date 1.0 / 24 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	Acrylamide
Product code	ACR01, ACR05
CAS number	79-06-1
EC number	-
Recommended use	For research use only. Not intended for diagnostic or therapeutic use.
Supplier	EcoTech Biotechnology
Website	www.ecotechbiotech.com
Address	Universite Mah. İpekyolu Cad. Ata Teknokent Sitesi B Blok No: Z10 Yakutiye Erzurum Türkiye
Telephone	0090 544 327 34 97
SDS contact	info@ecotechbiotech.com
Emergency telephone	0090 544 327 34 97
Available	Monday-Saturday/08:00-20:00/GMT+3
Languages	Turkish/English
Outside these hours	Contact: info@ecotechbiotech.com

02 HAZARDS IDENTIFICATION

Classification	Carcinogenicity Category 1B; Germ cell mutagenicity Category 1B; Reproductive toxicity Category 2; Acute toxicity Category 3 (oral and dermal), Category 4 (inhalation); Skin irritation Category 2; Eye irritation Category 2; STOT repeated exposure Category 1; Acute aquatic toxicity Category 2.
Label elements	Exposure may produce immediate or delayed adverse effects.
Symbols / pictograms	
Signal word	Danger
Hazard statements	H301: Toxic if swallowed. H312: Harmful in contact with skin. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H332: Harmful if inhaled. H340: May cause genetic defects. H350: May cause cancer. H361: Suspected of damaging fertility or the unborn child. H402: Toxic to aquatic life.

Precautionary statements - Prevention	P201: Obtain special instructions before use. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P280: Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statements - Response	P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor. P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338: IF IN EYES: Rinse cautiously with water; remove contact lenses, if present and easy to do. Continue rinsing.
Other hazards	Routes of entry: Eyes, skin, inhalation and ingestion. Potential effects on the eyes, central nervous system, kidneys and reproductive system. Repeated exposure may cause dermatitis; neurotoxicity and chronic effects are reported. For professional users only.

Composition & response

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03 COMPOSITION / INFORMATION ON INGREDIENTS

Substance	Acrylamide
CAS number	79-06-1
Molecular formula	C3H5NO
Molar mass	71.08 g/mol

04 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if easily possible. Continue rinsing and obtain medical attention.
Skin contact	Rinse skin with water or shower. Obtain medical attention if irritation or symptoms develop.
Inhalation	Move to fresh air. Seek medical advice whenever symptoms occur or exposure is suspected.
Ingestion	Rinse mouth and obtain immediate medical advice. Do not delay emergency treatment.
Self-protection of first aider	Use suitable personal protective equipment.
Most important symptoms / effects	Allergic reactions (rash, urticaria, asthma or anaphylactic response), neurotoxicity, ataxia, laboured breathing, convulsions and unconsciousness may occur.
Immediate medical attention / treatment	Prompt medical evaluation is required after suspected significant exposure.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Water spray, carbon dioxide (CO2), foam or dry chemical.
Unsuitable extinguishing media	No information available.
Special hazards arising from the substance or mixture	Combustible solid. Hazardous vapours or dust may occur during fire.
Explosion data	No information available on sensitivity to mechanical impact or static discharge.
Advice for firefighters	Wear self-contained breathing apparatus and full protective equipment.

Safe use & protection

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06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Ventilate the area and wear suitable protective equipment. Avoid generation or inhalation of dust.
Environmental precautions	Avoid release to the environment.
Methods and materials for containment and cleaning up	Collect carefully by sweeping into a closed container without producing dust. Dry lime or soda is listed as an absorbent in spill procedures.
Reference to other sections	See Section 13 for disposal.

07 HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with eyes, skin and clothing. Minimise dust generation and wash thoroughly after handling. Launder contaminated clothing before reuse.
Conditions for safe storage	Keep tightly closed in properly labelled containers in a cool, dry, well-ventilated place away from incompatible substances.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

ACGIH: 0.03 mg/m³ TWA; NIOSH: 0.03 mg/m³ TWA and 60 mg/m³ IDLH; OSHA: 0.3 mg/m³ TWA. Avoid dust formation and use local exhaust ventilation or a fume hood.

8.2 Exposure controls

Engineering measures	Provide adequate ventilation and local exhaust / fume hood to minimise dust exposure.
Hygiene measures	Wash thoroughly after use and remove contaminated clothing.
Eye / face protection	Safety goggles.
Hand protection	Chemical-resistant gloves (rubber gloves are specified).
Skin and body protection	Laboratory coat and appropriate protective clothing.
Respiratory protection	Use an approved respirator when inhalation exposure may occur.

Material properties

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09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	White crystalline solid
Odor	No odor
Odor threshold	No data available
pH	No data available
Melting point / freezing point	85°C
Initial boiling point and boiling range	125°C
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper / lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility(ies)	water
Partition coefficient: n-octanol / water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

10 STABILITY AND REACTIVITY

Reactivity	May polymerise when heated to melting point or exposed to light; dust-air mixtures may be explosive.
Chemical stability	Stable at normal room temperature and pressure.
Possibility of hazardous reactions	Hazardous polymerisation may occur.
Conditions to avoid	Dust generation, excess heat and exposure to light.
Incompatible materials	Metals, oxidising and reducing agents, bases and acids.
Hazardous decomposition products	Carbon monoxide and carbon dioxide.

Health & environment

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11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Oral LD50 (rat): 124 mg/kg; intraperitoneal LD50 (rat): 90 mg/kg; oral LD50 (mouse): 107 mg/kg. Other animal toxicity observations are reported.
Skin corrosion / irritation	Skin irritation and dermatitis reported, including toxicity through skin absorption.
Serious eye damage / eye irritation	Eye irritation reported.
Carcinogenicity	IARC Group 2A; animal carcinogenicity and suspected carcinogenicity reported.
Reproductive toxicity	Adverse reproductive effects reported in experimental animals.
STOT - SE	Neurotoxic effects may include numbness, tingling and weakness.
STOT - RE	Chronic neurological effects and dermatitis may occur after repeated exposure.
Aspiration hazard	No data available.

11.2 Potential health effects

Routes of exposure: skin, eyes, inhalation and ingestion. Neurotoxic symptoms may include numbness, tingling, limb weakness, sweating, fatigue and skin changes. Repeated exposure can cause dermatitis and central nervous system disturbances.

11.3 Additional information

Mutagenicity: See RTECS. Neurotoxicity effects have been reported in humans.

12 ECOLOGICAL INFORMATION

Ecotoxicity	No ecotoxicity data available.
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	No data available

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Chemical incineration is indicated. Use licensed hazardous-waste disposal facilities and comply with federal, provincial and local requirements.
Contaminated packaging	Handle as hazardous waste; follow applicable disposal regulations.

Transport & reference

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14 TRANSPORT INFORMATION

Mode	UN no.	UN proper shipping name	Hazard class	Packing group	Environmental hazards
US DOT	2074	Acrylamide	6.1	III	Not specified
IATA	2074	Acrylamide	6.1	III	Not specified
Canada TDG	2074	Acrylamide	6.1	III	Not specified

15 REGULATORY INFORMATION

US TSCA	Listed.
Canada WHMIS	D1B, D2A. Listed on the DSL and Ingredient Disclosure lists.
NFPA ratings	Health 2; Fire 2; Reactivity 2.
Chemical safety assessment	No data available.

16 OTHER INFORMATION

Key to abbreviations and acronyms

STOT-SE	Specific Target Organ Toxicity - Single Exposure
STOT-RE	Specific Target Organ Toxicity - Repeated Exposure
PBT	Persistent Bioaccumulative and Toxic
vPvB	very Persistent very Bioaccumulative and toxic
ADR	European Agreement concerning the international carriage of Dangerous goods by Road
CAS	Chemical Abstracts Service
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime code for Dangerous Goods
REACH	Registration, Evaluation, Authorization and restriction of Chemicals
RID	Regulations concerning the International transport of Dangerous goods by rail