Safety data sheet

ChemiPURE Bis-Acrylamide, Electrophoresis Grade, ≥99%

Product name ChemiPURE Bis-Acrylamide, Electrophoresis Grade, ≥99%	Catalog no. BACR01
Synonyms N,N'-Methylenebisacrylamide; MBA	SDS revision -
CAS no. 110-26-9	Format version / date 3 / 25 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	ChemiPURE Bis-Acrylamide, Electrophoresis Grade, ≥99%
Product code	BACR01 (100 g)
CAS number	110-26-9
EC number	203-750-9
Recommended use	For research use only; cross-linker for polyacrylamide gel electrophoresis.
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	Acute Tox. 3 (oral); Acute Tox. 4 (dermal); Muta. 1B; Carc. 1B; Repr. 2; STOT RE 1 (Regulation (EC) No. 1272/2008).
Label elements	GHS06 and GHS08. Signal word: Danger. Restricted to professional users.
Symbols / pictograms	
Signal word	Danger
Hazard statements	H301 - Toxic if swallowed. H312 - Harmful in contact with skin. H340 - May cause genetic defects. H350 - May cause cancer. H361 - Suspected of damaging fertility or the unborn child. H372 - Causes damage to organs through prolonged or repeated exposure.
Precautionary statements - Prevention	P201 - Obtain special instructions before use. P260 - Do not breathe dust. P264 - Wash thoroughly after handling. P280 - Wear protective gloves, protective clothing and eye/face protection.
Precautionary statements - Response	P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor. P302+P352 - IF ON SKIN: Wash with plenty of water. P308+P313 - IF exposed or concerned: Get medical advice/attention. P405 - Store locked up.
Other hazards	No PBT/vPvB properties identified. Keep dust under control and prevent environmental release.

Composition & response

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03 COMPOSITION / INFORMATION ON INGREDIENTS

Product name	ChemiPURE Bis-Acrylamide, Electrophoresis Grade, ≥99%
Synonyms	N,N'-Methylenebisacrylamide; Bis-acrylamide; MBA; methylene diacrylamide
Concentration	≥99% (purity)
Formula	C7H10N2O2
Molecular weight	154.17 g/mol
Substance information	Substance: N,N'-methylenebisacrylamide (CAS 110-26-9; EC 203-750-9). Purity ≥99%; the remaining fraction is not specified.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Immediately rinse eyes with plenty of water for at least 15 minutes, removing contact lenses if possible. Obtain medical advice immediately.
Skin contact	Remove contaminated clothing immediately. Wash skin thoroughly with plenty of water for at least 15 minutes. Seek immediate medical advice.
Inhalation	Move person to fresh air. Obtain immediate medical attention. If breathing stops, give artificial respiration using an appropriate barrier device.
Ingestion	Do NOT induce vomiting. Rinse mouth if conscious and call a POISON CENTER or physician immediately. Never give anything by mouth to an unconscious person.
Self-protection of first aider	Use appropriate chemical-resistant gloves, protective clothing and respiratory protection. Avoid secondary exposure.
Most important symptoms / effects	Toxic if swallowed; harmful on skin contact. Potential genetic, carcinogenic, reproductive and repeated-exposure organ effects.
Notes to physicians	Treat symptomatically. Show this safety data sheet to medical personnel.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Water spray, carbon dioxide (CO2), dry chemical powder or alcohol-resistant foam.
Unsuitable extinguishing media	No specific unsuitable extinguishing media identified.
Special hazards arising from the substance or mixture	Heating or combustion may generate irritating/toxic gases: carbon monoxide, carbon dioxide and nitrogen oxides.
Explosion data	No data available. Avoid dust formation and contact with strong oxidizing agents.
Advice for firefighters	Wear self-contained breathing apparatus and full protective equipment. Prevent contaminated firefighting runoff from entering waterways.

Safe use & protection

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06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Evacuate unnecessary personnel and ensure ventilation. Wear gloves, chemical protective clothing and goggles. Avoid dust formation, skin contact and inhalation.
Environmental precautions	Prevent release to drains, soil or surface waters.
Methods and materials for containment and cleaning up	Carefully collect solid material without raising dust and transfer to sealed, labelled hazardous-waste containers. Use suitable local extraction.
Reference to other sections	Refer to Sections 8 and 13.

07 HANDLING AND STORAGE

Precautions for safe handling	Use under a chemical fume hood. Avoid exposure to dust, skin, eyes and clothing. Wear PPE; do not eat, drink or smoke. Wash thoroughly after handling.
Conditions for safe storage	Store at 15–25 °C in a tightly closed, dry container protected from light, moisture and oxidizing agents. Restrict access to trained personnel.
Container labeling	Keep in the original, appropriately labelled and securely closed container.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No substance-specific occupational exposure limits established in the available EU safety data.

8.2 Exposure controls

Engineering measures	Use closed handling or local exhaust ventilation/chemical fume hood. Provide accessible eyewash and emergency shower.
Hygiene measures	Prevent dust accumulation. Remove contaminated clothing promptly. Wash hands and exposed skin after handling.
Eye / face protection	Use chemical safety goggles complying with EN 166; add face shield if splashing is possible.
Hand protection	Use chemical-resistant gloves suitable for the work (e.g. nitrile), selected according to EN 374 and supplier breakthrough data.
Skin and body protection	Wear protective laboratory coat, long sleeves and closed footwear. Avoid exposed skin.
Respiratory protection	Use appropriate particulate respirator when exposure cannot be controlled adequately by ventilation; follow local risk assessment.

Material properties

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09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	White crystalline powder (solid)
Odor	Odorless
Odor threshold	No data available
pH	No data available
Melting point / freezing point	Approximately 185 °C (decomposes)
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	Not applicable (solid)
Flammability (solid, gas)	No data available
Upper / lower flammability or explosive limits	No data available
Vapor pressure	Negligible at ambient temperature
Vapor density	Not applicable (solid)
Relative density	No data available
Solubility(ies)	Soluble in water; clear, colorless aqueous solution
Partition coefficient: n-octanol / water	log Pow approximately -1.52
Auto-ignition temperature	No data available
Decomposition temperature	No data available; decomposes around melting point
Viscosity	Not applicable (solid)
Explosive properties	No data available
Oxidizing properties	Not classified as oxidizing

10 STABILITY AND REACTIVITY

Reactivity	No significant reaction expected under recommended conditions.
Chemical stability	Air-sensitive and light-sensitive; stable under recommended sealed storage conditions.
Possibility of hazardous reactions	No hazardous polymerization reported under normal processing conditions.
Conditions to avoid	Excess heat, exposure to air and light, dust formation and incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon monoxide, carbon dioxide and nitrogen oxides under fire/decomposition conditions.

Health & environment

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11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Acute oral toxicity Category 3 (H301); acute dermal toxicity Category 4 (H312). LD50 oral, rat: 50–300 mg/kg. LD50 dermal, rabbit: 1,141 mg/kg.
Skin corrosion / irritation	No complete irritation study data available; dermal contact is harmful.
Serious eye damage / eye irritation	No definitive experimental eye-irritation data available.
Carcinogenicity	Carcinogenicity Category 1B (H350): May cause cancer.
Reproductive toxicity	Reproductive toxicity Category 2 (H361): Suspected of damaging fertility or the unborn child.
STOT - SE	No data available.
STOT - RE	Category 1 (H372): Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not applicable to a solid.

11.2 Potential health effects

Ingestion: Toxic if swallowed; urgent medical treatment is required.
Inhalation: Avoid breathing dust; serious effects may occur following exposure.
Skin: Harmful by skin contact.
Eyes: Contact may cause irritation.
Repeated exposure: May cause chronic organ damage; CMR hazards apply.

11.3 Additional information

Germ cell mutagenicity Category 1B (H340): May cause genetic defects.

12 ECOLOGICAL INFORMATION

Ecotoxicity	Not classified as hazardous to the aquatic environment under available CLP data; prevent uncontrolled release.
Persistence and degradability	Low persistence expected; no complete substance-specific test data available.
Bioaccumulative potential	Bioaccumulation unlikely (log Pow approximately -1.52).
Mobility in soil	Expected to be mobile in soil and water due to water solubility.
Results of PBT and vPvB assessment	Not considered PBT or vPvB according to available assessment.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Collect as hazardous chemical waste. Use an authorized hazardous-waste contractor. Do not discharge into drains or the environment.
Contaminated packaging	Dispose of as hazardous chemical packaging waste; do not reuse uncleaned containers.

Transport & reference

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14 TRANSPORT INFORMATION

Mode	UN no.	UN proper shipping name	Hazard class	Packing group	Environmental hazards
ADR/RID	UN 2811	TOXIC SOLID, ORGANIC, N.O.S. (N,N'-Methylenebisacrylamide)	6.1	III	No
IMDG	UN 2811	TOXIC SOLID, ORGANIC, N.O.S. (N,N'-Methylenebisacrylamide)	6.1	III	No
IATA	UN 2811	TOXIC SOLID, ORGANIC, N.O.S. (N,N'-Methylenebisacrylamide)	6.1	III	No

15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation	Regulation (EC) No. 1907/2006 (REACH) and Regulation (EC) No. 1272/2008 (CLP). Classified Acute Tox. 3 (oral), Acute Tox. 4 (dermal), Muta. 1B, Carc. 1B, Repr. 2 and STOT RE 1.
Environmental hazards	Not classified as hazardous to the aquatic environment. Avoid environmental discharge.
Chemical safety assessment	No product-specific chemical safety assessment 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