BIS-ACRYLAMIDE

SECTION 1: PRODUCT IDENTIFICATION

Product Name: BIS-ACRYLAMIDE
Product Code: TMB 019
CAS#: 110-26-9
Synonym: Not Available
Chemical Name: [(N-N-Methylene-Bis (Acrylamide)
Chemical Formula: $C_7H_{10}N_2O_2$
Formula Weight: 154.17

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:
Name: BIS-ACRYLAMIDE
Toxicological Data on Ingredients:
Acute Tox. 3; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; Muta. 1B; Carc. 1B; Repr. 2; STOT RE 1; H301, H332, H312, H315, H319, H317, H340, H350, H361f, H372

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture
Potential Acute Health Effects: Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 4), H332
Acute toxicity, Dermal (Category 4), H312
Skin irritation (Category 2), H315
Eye irritation (Category 2), H319
Skin sensitization (Category 1), H317
Reproductive toxicity (Category 2), H361f
Potential Chronic Health Effects:
Carcinogenic Effects: Carcinogenicity (Category 1B), H350
Mutagenic Effects: Germ cell mutagenicity (Category 1B), H340
Teratogenic Effects: Specific target organ toxicity - repeated exposure, Oral (Category 1), Peripheral nervous system, H372
Developmental Toxicity: Not Available

SECTION 4: FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact: Wash off immediately with soap and plenty of water. Cover the irritated skin with emollient. Immediate medical attention is required.
Serious Skin Contact: Not available.
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation: Not Available.
Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder
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.
Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Environmental precautions
Do not let product enter drains.
Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
Advice on safe handling
Work under hood. Do not inhale substance/mixture.
Storage conditions
Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.
Light sensitive.
Storage class
Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.
Respiratory protection
Respiratory protection is not required. If protection from nuisance levels of dusts are desired, use type N95 or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	:	Solid
Odor	:	Not available
Color	:	Not available
Molecular Weight	:	Not available
pH	:	Not available
Boiling Point	:	Not available
Melting Point	:	Not available
Critical Temperature	:	Not available
Specific Gravity	:	Not available
Vapor Pressure	:	Not applicable
Vapor Density	:	Not available
Volatility	:	Not available
Odor Threshold	:	Not available
Water/Oil Dist. Coeff.	:	Not available
Ionicity (in Water)	:	Not available
Dispersion Properties	:	Not available
Solubility	:	Not available

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: The product is chemically stable under standard ambient conditions (room temperature).
Instability Temperature: Not available
Conditions of Instability: Strong heating.
Incompatibility with various substances: Acids, Bases, Oxidizing agents, Reducing agents, Copper, Brass, Aluminum, Iron and iron salts., Free radical initiators.
Special Remarks on Corrosivity: Non corrosive.
Special Remarks on Reactivity: Not available
Polymerization: Will Not occur.
Hazardous decomposition products: In the event of fire.

SECTION 11: TOXICOLOGICAL INFORMATION.

Acute Toxicity :
Oral: No data available
Acute toxicity estimate Oral - 165,65 mg/kg
Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.
Acute toxicity estimate Inhalation - 4 h - 1,63 mg/l
Symptoms: Possible symptoms:, mucosal irritations
Acute toxicity estimate Dermal - 1.165 mg/kg
Routes of Entry: Inhalation, Ingestion
Toxicity to Animals:
LD_{50}: Not available
LC_{50}: Not available
Chronic Effects on Humans: Mixture causes damage to organs through prolonged or repeated exposure. - Peripheral nervous system **Other Toxic Effects on Humans:** Mixture causes skin irritation.
Special Remarks on Toxicity to Animals: Not available
Special Remarks on other Toxic Effects on Humans: Not available
Potential Health Effects: Suspected of damaging fertility.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Toxicity to fish	Static test LC50 - Oncorhynchus mykiss (rainbow trout) - 180 mg/l -96 h
Toxicity to daphnia and other aquatic invertebrates	flow-through test EC50 - Daphnia magna (Water flea) - 98 mg/l - 48h
Toxicity to algae	static test NOEC - Pseudokirchneriella subcapitata - 56 mg/l - 72 h
Toxicity to bacteria	EC50 - Photobacterium phosphoreum - 13.500 mg/l Remarks: (IUCLID)

BOD and COD: Not available.
Products of Biodegradation: Not available.
Special Remarks on the Products of Biodegradation: Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

UN number:
ADR/RID: 2074 **IMDG:** 2074 **IATA:** 2074
UN proper shipping name
ADR/RID: Acrylamide, solid
IMDG: Acrylamide, solid
IATA: Acrylamide, solid
Transport hazard class(es):
ADR/RID: 6.1 **IMDG:** 6.1 **IATA:** 6.1
Packaging group:
ADR/RID: III **IMDG:** III **IATA:** III
Environmental hazards:
ADR/RID: no **IMDG Marine pollutant:** no **IATA:** no

SECTION 15: REGULATORY INFORMATION

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.
Authorisations and/or restrictions on use

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: acrylamide
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles	: acrylamide

Chemical Safety Assessment: Not available.

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements.
H301 Toxic if swallowed.

H312 Harmful in contact with skin.
H312 + H332 Harmful in contact with skin or if inhaled.
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.
H361f Suspected of damaging fertility.
H372 Causes damage to organs through prolonged or repeated exposure if Swallowed
Other Special Considerations: Not available

The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user's obligation to investigate and determine the suitability of the information for their particular purpose.