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ESTD.1976 MULTI CHEM YOUR CHEMICAL PARTNER

SAFETY DATA SHEET

# ACRYLAMIDE

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

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|---|---|
| **1.1 Product identifier**: | |
| **CAS Number:** | 79-06-1 |
| **EC number:** | 200-703-8. |
| **1.2 SYNONYMS:** | • Propenamide<br>• Ethenamide<br>• Acryloamide<br>• 2-Propenamide<br>• Acrylamide monomer |

## SECTION 2: Hazards identification:

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| **2.1 Classification of the substance or mixture:** | Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation. |
| **2.2 Label elements:** | Labelling according to Regulation (EC) No 1272/2008<br>Carcinogenicity (Category 1B)<br>Mutagenicity (Category 1B)<br>Acute toxicity,inhalation(Category 3)<br>Acute toxicity,oral (Category 3)<br>Acute toxicity,dermal (Category 3)<br>Serious eye damage/ eye irritation(category 1)<br>Skin corrosion/ irritation (Category 2)<br>Specific Target Organ Toxicity - Single Exposure (Category 1)<br>Specific Target Organ Toxicity - Repeated Exposure (Category 2)<br>Hazardous to the aquatic environment (Acute toxicity, Category 1)<br>Hazardous to the aquatic environment (Chronic toxicity, Category 1) |

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| | |
|---|---|
| **Hazard Pictograms:** |  |
| **Signal Word:** | Danger |
| **Hazard statements:** | **H350:** May cause cancer.<br>**H340:** May cause genetic defects.<br>**H360F:** May damage fertility.<br>**H360D:** May damage the unborn child.<br>**H331:** Toxic if inhaled.<br>**H301:** Toxic if swallowed.<br>**H311:** Toxic in contact with skin.<br>**H315:** Causes skin irritation.<br>**H319:** Causes serious eye irritation.<br>**H370:** Causes damage to organs (e.g., nervous system) after a single exposure.<br>**H373:** May cause damage to organs (e.g., nervous system) through prolonged or repeated exposure..<br>**H400:** Very toxic to aquatic life.<br>**H410:** Very toxic to aquatic life with long-lasting effects. |
| **Precautionary Statements:** | **P201:** Obtain special instructions before use.<br>**P202:** Do not handle until all safety precautions have been read and understood.<br>**P260:** Do not breathe dust/fume/gas/mist/vapors/spray.<br>**P270:** Do not eat, drink, or smoke when using this product.<br>**P280:** Wear protective gloves/protective clothing/eye protection/face protection.<br>**P304 + P340:** IF INHALED: Remove person to fresh air and keep comfortable for breathing**.** |

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| | **P305 + P351 + P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.<br>**P391:** Collect spillage.<br>**P501:**Dispose of contents/ container in accordance with local /regional/national/ international regulations. |
| **2.3 Other hazards:** | |
| **Inhalation**: | can cause severe respiratory irritation, toxic effects on the nervous system, and potentially fatal outcomes |
| **Ingestion:** | can lead to severe toxicity, causing damage to the nervous system, gastrointestinal distress, and potentially life-threatening effects. |
| **Skin Contact:** | can cause irritation, absorption through the skin, and toxic effects on the nervous system. |
| **Eye contact:** | can cause serious irritation, redness, and potential damage to the eye tissue. |
| **Chronic Exposure:** | can lead to long-term damage to the nervous system, including symptoms such as neuropathy, muscle weakness, and impaired motor function, as well as an increased risk of cancer and reproductive toxicity. |
| **Aggravation of pre-existing conditions:** | may aggravate pre-existing conditions such as neurological disorders, skin conditions, or respiratory issues, and can worsen symptoms in individuals with compromised liver or kidney function. |

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## SECTION 3: Composition/information on ingredients

| | |
|---|---|
| **3.1 Chemical characterisation:** | Substances |
| **CAS No:** | Description: 79-06-1 ACRYLAMIDE |
| **Identification number(s):** | EC number: 200-703-8 |

## SECTION 4: First aid measures

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|---|---|
| **4.1 Description of first aid measures** | |
| **General information:** | |
| **After inhalation:** | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **After skin contact:** | Remove contaminated clothing. Wash with soap and water. Consult a physician. |
| **After eye contact:** | Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician. |
| **After swallowing:** | Rinse mouth with water. Immediately after ingestion. Never give anything by mouth to an unconscious person. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. |
| **4.2 Most important symptoms and effects, both acute and delayed:** | Acute exposure can cause skin and eye irritation, respiratory distress, and toxicity to the nervous system, while delayed effects can involve chronic neurological damage, cancer, and reproductive harm. |

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| **4.3 Indication of any immediate medical attention and special treatment needed:** | Treat symptomatically. |

## SECTION 5: Firefighting measures

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| **5.1 Extinguishing media:** | Carbon dioxide. Water spray. Alcohol-resistant foam. Dry powder. |
| **5.2 Special hazards arising from the substance or mixture:** | Formation of explosive dust/air mixtures is possible. Vapors are heavier than air and may spread along floors. Combustible. |
| **5.3 Advice for firefighters:** | Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety. |
| **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. |

## SECTION 6: Accidental release measures

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| **6.1 Personal precautions, protective equipment and emergency procedures:** | Use personal protective equipment.<br>Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention. |
| **6.2 Environmental precautions:** | Do not enter this chemical into drains. |

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| **6.3 Methods and material for containment and cleaning up:** | Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. |

## SECTION 7: Handling and storage

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| **7.1 Precautions for safe handling:** | For use in are with adequate ventilation.<br>Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material<br>Do not use in confined spaces.<br>Electrostatic discharge protection.<br>Minimize dust generation and accumulation.<br>Avoid ingestion and inhalation. |
| **7.2 Conditions for safe storage, including any incompatibilities:** | Store in original containers.<br>Keep containers securely sealed<br>Store in a cool, dry, well-ventilated area.<br>Store away from incompatible materials and foodstuff containers.<br>Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area. |
| **Requirements to be met by storerooms and receptacles:** | Keep container tightly closed in a dry and well-ventilated place.<br>Containers which are opened must be carefully resealed and kept upright to prevent leakage. |
| **7.3 Specific end uses:** | no data available |

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## SECTION 8: Exposure controls/personal protection

| | |
|---|---|
| **8.1 Control parameters** | |
| **Additional information about design of technical facilities:** | A system of local and general exhaust is recommended. |
| **8.2 Exposure controls** | |
| **Appropriate engineering controls** | Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. |
| **Personal protective equipment:** | Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc. |
| **General protective and hygienic measures:** | Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment. |
| | **Respiratory protection:** Required. |
| **Protection of hands:** | 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. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands. |
| | **Eye protection:** Required |
| **Protection of Body:** | Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. |

## SECTION 9: Physical and chemical properties

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| **9.1 Information on basic physical and chemical properties General Information** | |
| **Appearance: Form:** | Crystalline |
| **Colour:** | White |
| **Odour:** | Odorless |
| **pH-value:** | No data available |

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| | |
|---|---|
| **Melting point/Melting range:** | 13°C |
| **Boiling point/Boiling range:** | 139°C |
| **Flammability (solid, gaseous):** | Highly flammable |
| **Ignition temperature:** | 410°C |
| **Decomposition temperature:** | 220°C |
| **Self-igniting:** | No |
| **Flash point:** | 54°C |
| **Danger of explosion:** | No |
| **Explosion limits: Lower:** | 2.6% |
| **Explosion limits: Upper:** | 12.5% |
| **Vapour pressure:** | 5.33 Pa at 20°C |
| **Density at 20 °C:** | 1.05 |
| **Relative density:** | 1.05 |
| **Vapour density:** | 2.5 |
| **Evaporation rate:** | 3.6 |
| **Solubility in / Miscibility with-·water at 20 °C:** | Readily miscible |
| **Partition coefficient:(n-octanol/water)** | 0.46 |
| **Viscosity:** | 0.935 mPa.s at 20°C |

## SECTION 10: Stability and reactivity

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| **10.1 Reactivity** | Forms explosive mixtures with air on intense heating. |
| **10.2 Chemical stability** | This chemical is stable under storage conditions. |
| **10.3 Possibility of hazardous reactions** | Alkalines, Oxidizing agents, Reducing agents, Bases Metals, Peroxides acids |
| **10.4 Conditions to avoid** | Strong heating. |
| **10.5 Incompatible materials** | Strong oxidizing agents, Strong bases, Reducing agents, Alkaline metals. |
| **10.6 Hazardous decomposition products** | Carbon dioxides, carbon monoxide, nitrogen oxides. |

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## SECTION 11: Toxicological information

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|---|---|
| **11.1 Information on toxicological effects** | |
| **Acute Toxicity:** | **LD50** (Oral, Rat) : 177 mg/kg<br>**LD50** (Dermal, Rabbit) : no data available<br>**LC50** (Inhalation Rat) : 1,6 mg/l (4 hr) |
| **Skin corrosion/Irritation:** | Causes skin irritation |
| **Serious eye damage/irritation:** | Causes eye irritation |
| **Respiratory damage/irritation:** | Causes skin irritation |
| **Ingestion:** | No data available |
| **Germ cell mutagenicity:** | Can cause genetic defects. |
| **Carcinogenicity:** | Have high carcinogenic potential |
| **Reproductive toxicity:** | Can cause fertility damage. |
| **Specific target organ toxicity - single exposure:** | No data available |
| **Specific target organ toxicity - repeated exposure:** | can cause central nervous system damage. |
| **Aspiration hazard:** | No data available |
| **Signs and Symptoms of Exposure:** | Refer section 2.3 |
| **11.2 Additional toxicological information** | |
| **Biodegradability:** | Readily biodegradable |

## SECTION 12: Ecological information

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|---|---|
| **12.1 Toxicity**<br>**Aquatic toxicity:** | LC50(fish): no data available (96hr)<br>EC50(daphnia):98 mg/l (48hr)<br>EC50(Pseudokirchneriella subcapitata): 56 mg/l (72hr) |
| **12.2 Persistence and degradability:** | Readily biodegradable. |
| **12.3 Bioaccumulative potential:** | Low bioaccumulative. |
| **12.4 Mobility in soil:** | High mobility. |
| **12.5 Other adverse effects:** | No data available |

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## SECTION 13: Disposal considerations

| 13.1 Waste treatment methods | |
|---|---|
| **Uncleaned packaging Recommendation:** | dispose of in accordance with local hazardous waste regulations |
| **Recommended cleansing agents:** | water, diluted alcohol, and mild detergents. |

## SECTION 14: Transport information

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| **14.1 UN-Number · ADR, ADN, IMDG, IATA:** | 2074 |
| **14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:** | ACRYLAMIDE |
| **14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA** : | 6.1 |
| **14.4 Packing group · ADR, IMDG, IATA:** | 3 |
| **14.5 Environmental hazards:** | No. |
| **14.6 Special precautions for user:** | Handle responsibly. |

## SECTION 15: Regulatory information

| | |
|---|---|
| **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU** | Directive 2012/18/EU, under that this substance is not classified in listed substance. |
| **Named dangerous substances:** | This substance is not listed in the annex 1 to the directive. |
| **15.2 Chemical safety assessment:** | Chemical assessment has been carried out under REACH regulation |

## SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of

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