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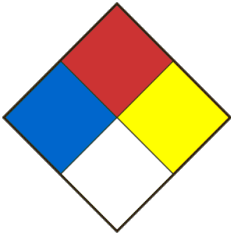
## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier ACRYLIC AMIDE		Product Use Laboratory use	
Chemical formula C <sub>3</sub> H <sub>5</sub> NO		Product code AU-0999; AP-0107, AE-0990	Molar weight 71,08
Chemical name / Commercial name / Synonymous 2-PROPENAMIDE, PROPENAMIDE, ACRYLIC AMIDE, ETHYLENECARBOXAMIDE			
Supplier's name Laboratoire MAT		Address-Street 610, Adanac Street	
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Emergency phone	CANUTEC: 613-996-6666		CENTRE ANTI-POISON DU QUÉBEC 800-463-5060
Date SDS 8/17/2021	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

## SECTION 02 - HAZARDS IDENTIFICATION

<b>Classification WHIMS / GHS</b>	<p>Skin corrosion/irritation - Skin irritation category 2</p> <p>Germ cell mutagenicity category 1A</p> <p>Carcinogenicity category 1B</p> <p>Reproductive toxicity category 2</p> <p>Specific Target Organ Toxicity - Repeated exposure category 1</p> <p>Acute toxicity - Oral category 3</p> <p>Acute toxicity - Dermal category 4</p> <p>Acute toxicity - Inhalation category 4</p> <p>Respiratory or skin sensitization - Skin sensitize category 1</p> <p>Serious eye damage/eye irritation - Eye irritation category 2</p>
<b>Signal Word</b>	<p>DANGER</p>
<b>Hazards statements (H)</b>	<p>H301 Toxic if swallowed.</p> <p>H312 Harmful in contact with skin.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H340 May cause genetic defects.</p> <p>H350 May cause cancer.</p> <p>H361 Suspected of damaging fertility or the unborn child.</p> <p>H372 Causes damage to organs through prolonged or repeated exposure.</p>
<b>Precautionary statements (P)</b>	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P260 Do not breathe dust / fume / gas / mist / vapors / spray.</p> <p>P261 Avoid breathing dust / fume / gas / mist / vapors / spray.</p> <p>P264 Wash the areas of the body that have been in contact with the product after handling.</p> <p>P270 Do no eat, drink or smoke when using this product.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</p> <p>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</p> <p>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308 + P313 IF exposed or concerned: Get medical advice/attention.</p> <p>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P314 Get medical advice/attention if you feel unwell.</p> <p>P321 Specific treatment (see section 4 of the SDS and on this label).</p> <p>P330 Rinse mouth.</p> <p>P332 + P313 If skin irritation occurs: Get medical advice/attention.</p> <p>P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P337 + P313 If eye irritation persists: Get medical advice/attention.</p> <p>P362 + P364 Take off contaminated clothing and wash it before reuse.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.</p>
<b>PICTOGRAMS</b>	

<b>Other dangers</b>	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	<b>Health</b> 3 <b>Fire</b> 2 <b>Reactivity</b> 2 <b>Special danger</b>

## SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Acrylamide	79-06-1	<=100

## SECTION 04 - FIRST AID MEASURES

<b>Eye contact</b>	Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention.
<b>Skin contact</b>	Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention.
<b>Inhalation</b>	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
<b>Ingestion</b>	If the person is conscious, rinse the mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.
<b>Most important symptoms and effects (acute and delayed)</b>	The product is toxic, corrosive and irritant. Main symptoms of high exposure: Tiredness. Skin sensitizer. Convulsions. Loss of appetite. Ataxia (balance disorder). Numbness. Lethargy. Skin lesions. Ref. section 11.
<b>Immediate medical attention and special treatment, if necessary</b>	In case of medical consultation, keep this sheet available.
<b>General advice</b>	Show this safety data sheet to the doctor in attendance.

## SECTION 05 - FIREFIGHTING MEASURES

<b>Flammability</b>	No
<b>Ignition conditions</b>	Non flammable.
<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable extinguishing media</b>	Data not available.
<b>Hazardous combustion products</b>	Hazardous combustion products formed under fire conditions: Carbon oxides, Nitrogen oxides (NOx).
<b>Special fire and explosion hazards</b>	Acrylamide can polymerize rapidly at its melting point (84.5 ° C) or under the effect of light and ultraviolet. Containers exposed to fire may explode. May react violently with incompatible products (Ref Section 10).
<b>Special protective equipment and precautions for firefighters</b>	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.

## SECTION 06 - ACCIDENTAL RELEASE MEASURES

<b>Methods and materials for containment and cleaning up / Personal precautions, protective equipment</b>	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Avoid breathing dust. Use a respirator as needed. Pick up with a shovel or broom, taking care not to scatter dust. Do NOT use absorbents composed with minerals, clay, or cellulose. Dispose of residues in a container provided for the disposal of hazardous materials. Do not let product enter drains.
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## SECTION 07 - HANDLING AND STORAGE

<b>Conditions for safe storage</b>	Store in a cool, dry place. Store in a well-ventilated area. Keep container tightly closed and store away from heat, air, moisture and incompatible products. Protect from light and sunlight. Hygroscopic.
<b>Methods of handling</b>	Avoid contact with the skin, eyes and clothes. Avoid formation of dust and aerosols. Use a hood preferably. Avoid ingestion and inhalation. Wear personal protective equipment when handling. Always ensure good ventilation. Transport according to TDG (ref Section 14)

## SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace control parameters

Components	CAS-No.	Control	Value	Basis
ACRYLAMIDE	79-06-1	VEMP	0.03 ppm	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
Remarques	A substance whose exposure must be minimized in accordance with Article 42. Skin (percutaneous) A suspected carcinogenic effect in humans			
		TWA	0.03 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
	The substance can be easily absorbed through intact skin			
		TWA	0.03 mg/m3	Canada. British Columbia OEL
	IARC "2A" applies to substances that are considered to be probably carcinogenic to humans based on data limited carcinogenicity in humans. Contributes significantly to overall dermal exposure.			

Data source	Sigma-Aldrich.
Ventilation	Use fan.
Respiratory	If the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.
Gloves	Handle with gloves.
Eyes	Safety goggles with safety shutters.
Shoes	Safety shoes.
Clothing	Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Engineering control	Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

## SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid.
Appearance	Poudre blanche.
Odour	inodore.
Odour threshold	Data not available
pH	5.2 - 6 à 500 g/l.
Melting point / Freezing point	82-86°C
Initial boiling point	125°C à 25 mmHg.
Boiling range	Data not available
Flash point	138°C
Evaporation rate	Data not available
Flammability	No
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Vapour pressure	0.0675 mmHg à 25 °C.
Vapour density	2.45 - (Air = 1.0)-
Relative density	1.122 g/cm <sup>3</sup> @ 30°C.
Solubility	Très soluble dans l'eau, l'alcool et l'acétone.
Partition coefficient water/n-octanol	log Pow: -0.67-
Auto-ignition temperature	424°C
Decomposition temperature	175°C
Viscosity	2.71 cP à 25°C (solution aqueuse 50%).

## SECTION 10 - STABILITY AND REACTIVITY

<b>Reactivity</b>	May react violently with incompatible substances.
<b>Chemical stability</b>	Stable under recommended storage conditions. Hygroscopic. Decomposes on exposure to light.
<b>Possibility of hazardous reactions</b>	It polymerizes easily when heated to melting point or when exposed to UV light. May polymerize vigorously if mixed with peroxides.
<b>Conditions of instability (Including sensitivity to shock / static discharge / vibration)</b>	Avoid moisture and excessive heat. Avoid direct sunlight. Sensitive to the air.
<b>Incompatible material</b>	Strong oxidizing agents (nitric acid, perchloric acid, peroxides, chlorates and perchlorates), acids, bases, air, light, ultraviolet, heat and moisture. Iron and ferrous salts, Copper, brass, initiators of free radicals.
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. Carbon oxides, Nitrogen oxides (NO <sub>x</sub> ).

## SECTION 11 - TOXICOLOGICAL INFORMATION

### ACRYLIC AMIDE

<b>Routes of exposure</b>	Ingestion, inhalation, skin and eyes.
<b>Acute exposition effects / symptoms:</b>	By exposure route below.
<b>- Eyes</b>	Irritation and may cause inflammation of the conjunctiva.
<b>- Skin</b>	Irritation and dermatitis.
<b>- Inhalation</b>	Irritation of the mucous membranes and respiratory tract. Nervous disorders, chest pain, cough, dyspnea, headache, dizziness, drowsiness, sweating, salivation, erythema, ataxia, muscle weakness, seizures, nausea and vomiting.
<b>Acute toxicity (Ingestion)</b>	Irritation of the mucous membranes. Abdominal pain, cramps, diarrhea, headache, dizziness, confusion, incoordination, erythema, sweating, salivation, limb tremor and numbness, ataxia, muscle weakness, convulsions, circulatory collapse, unconsciousness, coma and can lead to death.
<b>Chronic exposure effects / symptoms</b>	Is recognized as probably carcinogenic agent for humans (class 2A IARC) - Group 2A. Burning sensation, dermatitis, conjunctivitis, nervous disorders, chest pain, cough, dyspnea, laryngitis, headache, dizziness, confusion, irritability, erythema, sweating, salivation, tremors, fatigue, weight loss and loss of appetite, nausea and vomiting. Can modify the genetic material. May cause disorders of the reproductive system. The peripheral nervous system is the main target of acrylamide although the central nervous system is also affected.
<b>DL50 (specify species and route of entry)</b>	LD50 Oral - Rat - 177 mg/kg. LD50 Dermal - Rabbit - 1141 mg/kg.
<b>CL50 (specify species and route of entry)</b>	CL50 inhalation - Rat > 1500 mg/m <sup>3</sup> - 4 h.

## SECTION 12 - ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	EC50 - Daphnia magna (Water flea) - 160 mg/L - 48 h LC50 - Pimephales promelas (fathead minnow) - 90 mg/L - 96 h.
<b>Persistence and degradability</b>	Biodegradability Result: 100% - Readily biodegradable. (OECD guideline 301D).
<b>Bioaccumulative potential</b>	Bioaccumulation Oncorhynchus mykiss (rainbow trout) - 72 h - 710 µg / l (Acrylamide) Bioconcentration factor (BCF): 1.65.
<b>Mobility in soil</b>	Soluble in water. Probable mobility in the environment due to its solubility in water.
<b>Other adverse effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life. Do not flush into surface water or sanitary sewer system.

## SECTION 13 - DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method</b>	Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company.
<b>Contaminated Packaging</b>	Dispose of as unused product.

## SECTION 14 - TRANSPORT INFORMATION

UN Number	2074
UN Proper shipping name	ACRYLAMIDE SOLIDE
Transport hazard class(es)	6.1 Toxic substances
Packing group	III
Limited quantity index	5kg
ERAP Index	-
Special precautions	-

## SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Skin corrosion/irritation - Skin irritation category 2 Germ cell mutagenicity category 1A Carcinogenicity category 1B Reproductive toxicity category 2 Specific Target Organ Toxicity - Repeated exposure category 1 Acute toxicity - Oral category 3 Acute toxicity - Dermal category 4 Acute toxicity - Inhalation category 4 Respiratory or skin sensitization - Skin sensitize category 1 Serious eye damage/eye irritation - Eye irritation category 2
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## SECTION 16 - OTHER INFORMATION

### Further information

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. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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