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## Section 1. Identification

### 1.1 Product Identifier 0021

Product Name ACRYLAMIDE pure

CAS Number 79-06-1

REACH Registration No Not applicable

Molecular Formula  $\text{CH}_2=\text{CHCONH}_2 = 71.08$

### 1.2 Relevant identified uses of the substance or mixture & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

### 1.3 Supplier Vickers Laboratories Ltd



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### 1.4 Emergency Telephone (08:00-16:30) 0113 2362811 (24hr) 112 (Have this document to hand)

## Section 2. Hazards Identification

### 2.1 Classification of the substance or mixture

#### Classification according to regulation 1272/2008/EC

Acute toxicity, category 3 (oral) (Acute Tox. 3 (O)). Skin corrosion/irritation, category 2 (Skin Irrit. 2). Acute toxicity, category 4 (dermal) (Acute Tox. 4 (D)). Acute toxicity, category 4 (inhalation) (Acute Tox. 4 (I)). Serious eye damage/irritation, category 2 (Eye Irrit. 2). Skin sensitization, category 1 (Skin Sens. 1). Germ cell mutagenicity, category 1B (Muta. 1B). Carcinogenicity, category 1B (Carc. 1B). Reproductive toxicity, category 2 (Repr. 2). Spec target organ tox - repeat, category 1 (STOT RE 1).

### 2.2 Label elements

#### Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms



Hazard Statements May cause cancer. May cause genetic defects. Suspected of damaging fertility or the unborn child. Toxic if swallowed. Harmful if inhaled and in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements Obtain special instructions before use. Avoid release to the environment. Wear protective gloves / protective clothing / eye protection / face protection. IF exposed or concerned: Get medical advice/attention.

## Section 3. Composition

### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Acrylamide	79-06-1	201-173-7		>98.5%	Acute Tox. 3 (O), Skin Irrit. 2, Acute Tox. 4 (D), Acute Tox. 4 (I), Eye Irrit. 2, Skin Sens. 1, Muta. 1B, Carc. 1B, Repr. 2, STOT RE 1

## Section 4. First Aid

### 4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water. If discomfort persists OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure.

Ingestion Wash out the patient's mouth thoroughly with water. OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first aiders Wear protective gloves / eye protection.

### 4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

## Section 5. Fire Fighting

### 5.1 Extinguishing media

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Nothing specified.

### 5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire.

### 5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.

## Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so.

### 6.2 Environmental precautions

Environmental Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

### 6.3 Methods and material for containment and cleaning up

Major Spillage	Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer to sealable container for disposal. Carry out this operation under fume extraction. Wash area down with copious amounts of water.
Minor Spillage	Wash area down with copious amounts of water.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Protect from direct sunlight.

### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits		
			Long Term (8hr TWA)	Short Term 15min period	
Acrylamide	79-06-1	>98.5%	-	-	0.3 ppm

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

### 8.2 Exposure controls

Respiratory Protection	If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.
Hand Protection	Wear gloves.
Eye Protection	Use tightly fitting chemical splash proof glasses or goggles.
Skin Protection	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.
Special Hazards	No special precautions required.

## Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance	White powder.
Odour	Odourless.
pH	7 @ 20°C
Boiling Point	Not available
Melting Point	85°C
Flash Point	138°C (Closed cup)
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
Auto Ignition	Not applicable
Explosive Properties	No.
Oxidising Properties	No.
Vapour Pressure	1.6mmHg @ 85°C
Relative Density	Not available
Water Solubility	Moderately soluble in water.

### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

10.1	Reactivity	No data available.
10.2	Chemical Stability	Stable under normal conditions but tends to polymerise at temperatures above 100 C.
10.3	Possibility of hazardous reactions	No data available.
10.4	Conditions to Avoid	Avoid heat and prolonged exposure to light and air.
10.5	Incompatible Materials	Acids, bases, oxidising agents and reducing agents.
10.6	Hazardous Decomposition Products	May decompose to produce toxic fumes of carbon monoxide, ammonia and nitrous gases.

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

Eyes	Contact with the solid or dust will be irritating to the eyes.
Skin	May be harmful in contact with skin. A potent skin sensitiser.
LD50 Skin	1141mg/kg Rabbit
Ingestion	Causes immediate irritation of the mouth, throat and gastro-intestinal tract. Moderately toxic by ingestion.
LD50 Oral	177mg/kg Rat
Inhalation	Inhalation of dust will cause irritation of mucous membranes, coughing and dyspnoea. CNS disorders, ataxia.
LD50 Inhalation	>1500mg/m <sup>3</sup> Rat (4 hours)
TCLo	Not available
Carcinogenicity	Carcinogenicity, category 1B. Has been found to cause cancer in laboratory animals.
Mutagenicity	A mutagen.
Reproductive Effects	Teratogen category 2.

## Section 12. Ecological

12.1	Toxicity	Do not allow to enter drinking water supplies, waste water, or soil. Small amounts present no specific environmental hazard.
	LC50 Algal	Not available
	LC50 Crustacea	160mg/l Daphnia magna (48 hours)
	LC50 Fish	90mg/l Fathead Minnow (96 hours)
12.2	Persistence and degradability	No data available.
12.3	Bioaccumulative potential	No data available.
12.4	Mobility in soil	No data available.
12.5	Results of PBT & vPvB assessment	Assessment not required.
12.6	Other adverse effects	None known at present.

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

Disposal Methods	Do not dispose of as domestic waste.
Contaminated Packaging	Wash out containers with water. Use a licensed waste disposer.

## Section 14. Transport Information

<b>14.1 UN Number</b>	2074
<b>14.2 Proper Shipping Name</b>	Acrylamide, solid
<b>14.3 Transport classes</b>	
UN classification	6.1
Subsidiary hazard(s)	None
Transport category	2
ADR Hazard ID	60
Tunnel Restriction Code	E
<b>14.4 Packing Group</b>	III
<b>14.5 Environment hazards</b>	See section 12.
<b>14.6 Special precautions for user</b>	No special precautions required.
<b>14.7 Transport in bulk</b>	Not transported in bulk.



## Section 15. Regulatory Information

### 15.1 Safety, health and environment regulations specific for substance/mixture.

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification	Acute toxicity, category 3 (oral); Skin corrosion/irritation, category 2; Acute toxicity, category 4 (dermal); Acute toxicity, category 4 (inhalation); Serious eye damage/irritation, category 2; Skin sensitization, category 1; Germ cell mutagenicity, category 1B; Carcinogenicity, category 1B; Reproductive toxicity, category 2; Spec target organ tox - repeat, category 1
Signal word	Danger
Hazard Pictograms	
Hazard Statements	H350, H340, H361, H301, H312+H332, H315, H319, H317, H372 May cause cancer. May cause genetic defects. Suspected of damaging fertility or the unborn child. Toxic if swallowed. Harmful if inhaled and in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Causes damage to organs through prolonged or repeated exposure.
Precautionary Statements	P201, P273, P280, P308+P313 Obtain special instructions before use. Avoid release to the environment. Wear protective gloves / protective clothing / eye protection / face protection. IF exposed or concerned: Get medical advice/attention.

### 15.2 Chemical safety assessment

Assessment not required.

## Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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