

Section 1. Identification**1.1 Product Identifier** 0021

Product Name ACRYLAMIDE pure

CAS Number 79-06-1

REACH Registration No A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.

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 LtdGrangefield Industrial Estate
Richardshaw Road
Pudsey
West Yorkshire
LS28 6QW
UNITED KINGDOM

Phone 44 0113 2362811

Fax +44(0)113 2362703

Email safety@viclabs.co.ukWebsite www.viclabs.co.uk**1.4 Emergency Telephone** (08:00-16:30) +44(0) 113 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)

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

H301: Toxic if swallowed.

H315: Causes skin irritation.

H312: Harmful in contact with skin.

H332: Harmful if inhaled.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

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.

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 patients 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.
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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.
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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.
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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 ³ 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


14.1 UN Number	2074
14.2 Proper Shipping Name	Acrylamide, solid
14.3 Transport classes	
UN classification	6.1
Subsidiary hazard(s)	None
Transport category	2
ADR Hazard ID	60
Tunnel Restriction Code	E
14.4 Packing Group	III
14.5 Environment hazards	See section 12.
14.6 Special precautions for user	No special precautions required.
14.7 Transport in bulk	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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