

CIS-4-AMINO-1-METHYLCYCLOHEXAN-1-OL 97%

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Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: CIS-4-AMINO-1-METHYLCYCLOHEXAN-1-OL 97%

CAS number: 177906-46-6

Product code: OR61449

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Company name: Apollo Scientific Ltd

	Units 3 & 4
	Parkway
	Denton
	Manchester
	M34 3SG
	UK
Tel:	0161 337 9971
Fax:	0161 336 6932
Email:	david.tideswell@apolloscientific.co.uk

1.4. Emergency telephone number

Emergency tel: -

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin Corr. 1B: H314

Most important adverse effects: Causes severe skin burns and eye damage.

2.2. Label elements

Label elements:

Hazard statements: H314: Causes severe skin burns and eye damage.

Hazard pictograms: GHS05: Corrosion



Signal words: Danger

Precautionary statements: P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .

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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.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: CIS-4-AMINO-1-METHYLCYCLOHEXAN-1-OL 97%

CAS number: 177906-46-6

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin.
	Drench the affected skin with running water for 10 minutes or longer if substance is still
	on skin. Transfer to hospital if there are burns or symptoms of poisoning.
Eye contact:	Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist
	examination.
Ingestion:	Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10
	minutes. If unconscious, check for breathing and apply artificial respiration if necessary.
	If unconscious and breathing is OK, place in the recovery position. Transfer to hospital
	as soon as possible.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. If
	unconscious and breathing is OK, place in the recovery position. If conscious, ensure
	the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and
	provide oxygen if available. Transfer to hospital as soon as possible.
4.2. Most important symptoms	and effects, both acute and delayed
Skin contact:	Blistering may occur. Progressive ulceration will occur if treatment is not immediate.
Eye contact:	Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

[cont...]

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5.2. Special hazards arising from the substance or mixture Exposure hazards: Corrosive. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides (NOx). 5.3. Advice for fire-fighters Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Section 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures Personal precautions: Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust. 6.2. Environmental precautions Environmental precautions: Do not discharge into drains or rivers. 6.3. Methods and material for containment and cleaning up Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Transfer to a closable, labelled salvage container for disposal by an appropriate method. 6.4. Reference to other sections Section 7: Handling and storage 7.1. Precautions for safe handling Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air. Only use in fume hood. 7.2. Conditions for safe storage, including any incompatibilities Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Air sensitive. Store under Argon. Suitable packaging: Must only be kept in original packaging. 7.3. Specific end use(s) Specific end use(s): No data available. Section 8: Exposure controls/personal protection 8.1. Control parameters

Workplace exposure limits: No data available.

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DNEL/PNEC Values DNEL / PNEC No data available. 8.2. Exposure controls Engineering measures: Ensure there is sufficient ventilation of the area. **Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter. Hand protection: Protective gloves. Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand. Skin protection: Protective clothing. Section 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties State: Solid Evaporation rate: No data available. Oxidising: No data available. Solubility in water: No data available. Viscosity: No data available. Boiling point/range ℃: No data available. Melting point/range °C: No data available. Flammability limits %: lower: No data available. upper: No data available. Part.coeff. n-octanol/water: No data available. Flash point °C: No data available. Autoflammability°C: No data available. Vapour pressure: No data available. Relative density: No data available. **pH:** No data available.

9.2. Other information

Other information: No data available.

VOC g/l: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Heat. Air.

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10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides

(NOx).

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

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13.1. Waste treatment methods		
Disposal operations:	Transfer to a suitable container and arrange for collection by specialised disposal	
	company. MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL,	
	STATE AND FEDERAL REGULATIONS	
Disposal of packaging:	Dispose of as special waste in compliance with local and national regulations Observe	
	all federal, state and local environmental regulations.	
NB:	The user's attention is drawn to the possible existence of regional or national	
	regulations regarding disposal.	
Section 14: Transport informat	ion	
14.1. UN number		
UN number:	UN3259	
14.2. UN proper shipping name		
Shipping name:	AMINES, SOLID, CORROSIVE, N.O.S.	
14.3. Transport hazard class(es		
Transport class:	8	
14.4. Packing group		
		
Packing group:	III	
a management of the second of		
14.5. Environmental hazards		
14.5. Environmental hazards Environmentally hazardous:	No Marine pollutant: No	
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http://echa.europa.eu/support/oecd-qsar-toolbox

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 Phrases used in s.2 and s.3: H314: Causes severe skin burns and eye damage.
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