

4-AMINOQUINOLINE

Page: 1 Compilation date: 29/04/2010 Revision date: SAP\_07/07/15 Revision No: 2

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

### 1.1. Product identifier

Product name: 4-AMINOQUINOLINE CAS number: 578-68-7

Product code: OR17934

Synonyms: \* QUINOLIN-4-AMINE

#### 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

### Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification under CLP: STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315 Classification under CHIP: Xi: R36/37/38

Most important adverse effects: Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

2.2. Label elements

Label elements:	
Hazard statements:	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
Signal words:	Warning
Hazard pictograms:	GHS07: Exclamation mark



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Precautionary statements: P271: Use only outdoors or in a well-ventilated area.

P261: Avoid breathing dust.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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: 4-AMINOQUINOLINE

CAS number: 578-68-7

#### 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. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. 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.

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

Exposure hazards: 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.

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Section 6: Accidental release m	easures		
6.1. Personal precautions, prote	ective equipment and emergency procedures		
Personal precautions:	Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. 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 create dust.		
6.2. Environmental precautions			
Environmental precautions:	Do not discharge into drains or rivers.		
6.3. Methods and material for co	ontainment and cleaning up		
Clean-up procedures:	Transfer to a closable, labelled salvage container for disposal by an appropriate method.		
6.4. Reference to other sections	;		
Section 7: Handling and storage	e		
7.1. Precautions for safe handling	ng		
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/pe	ersonal protection		
8.1. Control parameters			
Workplace exposure limits:	No data available.		
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		
Hand protection:	protective device with particle filter. Protective gloves.		
		[cont	1

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Eye protection: Safety glasses. 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

Solubility in water: Slightly soluble

Melting point/range °C: 152-154

9.2. Other information

Other information: 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.

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 substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data
STOT-single exposure	INH	Based on test data

#### Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

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Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. 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

#### 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 information

Transport class: This product does not require a classification for transport.

#### Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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Other Information       Other Information:     This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.       * Data predicted using computational software. Toxtree - Toxic Hazard Estimation by decision tree approach. http://ecb.jrc.ec.europa.eu/gsar/gsar-tools/index.php?       ~ TOXTREE     - Data predicted using computational software ACD/ToxSuite v 2.95.1 Copyright 1994- 2009 ACD/labs. Copyright 2001-2009 Pharma Algorithms, Inc, Advanced Chemistry Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc_admet/tox/tox/       Phrases used in s.2 and s.3:     H315: Causes serious sey initiation. H319: Causes serious sey initiation. H335: May cause respiratory initiation. H335: May cause respiratory initiation. H335: May cause respiratory initiation. H335: May cause respiratory system and skin.       Legend to abbreviations:     PNEC - a predicted no effect level L050 = median lethal dose L050 = median inibitory concentration EC50 = median inibitory concentration L050 = median inibitory concentration L050 = median inibitory concentration MWS = mouse GPG = guinea pig RBT = rabbit HAM = hamster HMN = human MAM = marmal PGN = pigeon IVN = intravenous SCU = subcutaneous SCU = subcutaneous SCU = subcutaneous       SKN = skin     DML - dermal QCC = ocular/corneal PCP = phycloc-chemical properties	Section 16: Other information	
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SCU = subcutaneous SKN = skin DRM = dermal OCC = ocular/corneal		PGN = pigeon
SKN = skin DRM = dermal OCC = ocular/corneal		IVN = intravenous
DRM = dermal OCC = ocular/corneal		SCU = subcutaneous
OCC = ocular/corneal		SKN = skin
		DRM = dermal
PCP = phycico-chemical properties		OCC = ocular/corneal
		PCP = phycico-chemical properties
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# **SAFETY DATA SHEET** 4-AMINOQUINOLINE

by those who have been fully trained in safety, laboratory and chemical handling procedures. The above information is believed to be correct to the best of our knowledge. The above information is believed to be correct to the best of our knowledge at the date of its publication, but should not be considered to be all inclusive. It should be used only as a guide for safe handling, storage, transportation and disposal. We cannot guarantee that the hazards detailed in this document are the only hazards that exist for this product. This is not a warranty and Apollo Scientific Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.

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