

2,4-DICHLOROQUINOLINE

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Compilation date: 05/08/2005

Revision date: SAP_07/09/15

Revision No: 3

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

1.1. Product identifier

Product name: 2,4-DICHLOROQUINOLINE

CAS number: 703-61-7

Product code: OR3822

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: | Acute Tox. 3: H301; STOT SE 3: H335; Eye Dam. 1: H318; Skin Irrit. 2: H315 |
|---------------------------------|--|
| Classification under CHIP: | T: R25; Xi: R37/38; Xi: R41 |
| Most important adverse effects: | Toxic if swallowed. Causes skin irritation. Causes serious eye damage. May cause |
| | respiratory irritation. |

2.2. Label elements

Label elements:

Hazard statements: H301: Toxic if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion

GHS06: Skull and crossbones

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

 P260: Do not breathe 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: 2,4-DICHLOROQUINOLINE

CAS number: 703-61-7

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. | |
|---------------|--|--|
| | 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. | |
| Eve contact: | Patho the ave with rupping water for 15 minutes. Transfer to bespital for epocialist | |

- 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. If conscious, give half a litre of water to drink immediately. 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 conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. 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: There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.

Eye contact: There may be severe pain. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion.Convulsions may occur. There may be loss of consciousness.

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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.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Toxic. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides (NOx). Hydrogen chloride (HCI).

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 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 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 exhaust ventilation of the area.

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. Recommended storage temp 2-8 ℃.
 Suitable packaging: Must only be kept in original packaging.

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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.

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures:Ensure there is exhaust ventilation of the area.Respiratory protection:Self-contained breathing apparatus must be available in case of emergency. Particle
filter class P1 (EN143).Hand protection:Protective gloves.Eye protection:Safety glasses with side-shields. Ensure eye bath is to hand.Skin protection:Protective clothing.

Melting point/range °C: 62-67

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Solid

Also soluble in:Methanol.Boiling point/range ℃:282

Part.coeff. n-octanol/water: log Pow: 3.500

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.

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10.6. Hazardous decomposition products

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

chloride (HCl). Nitrogen oxides (NOx).

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

| Hazard | Route | Basis |
|-------------------------------|-------|--------------------|
| Acute toxicity (ac. tox. 3) | ING | Based on test data |
| 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 redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.

Eye contact: There may be severe pain. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness.

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.

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| Section 13: Disposal considerations 13.1. Waste treatment methods 13.1. Waste treatment methods Disposal operations: 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 14.1. UN number UN number: UN number: UN2811 14.2. UN proper shipping name Shipping name: Shipping name: TOXIC SOLID, ORGANIC, N.O.S. 14.3. Transport class: 6.1 14.4. Packing group Packing group: Packing group: III 14.5. Environmental hazards Environmental hazards Environmentally hazardous: No Marine pollutant: No 14.6. Special precautions for user Tunnel code: Transport category: 2 Section 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.2. Chemical safety assessment: A chemical safety assess | | | |
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| by the supplier. | Chemical safety assessment: | A chemical safety assessment has not been carried out for the substance or the mixture | |
| | | by the supplier. | |
| Section 16: Other information | | | |
| Other information | Other information | | |
| Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No | Other information: | This safety data sheet is prepared in accordance with Commission Regulation (EU) No | |
| | | 453/2010. | |
| 403/2010. | | | |
| | | | |
| * Data predicted using computational software. Toxtree - Toxic Hazard Estimation by decision tree approach. http://ecb.jrc.ec.europa.eu/qsar/qsar-tools/index.php? | | | |

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c=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: | H301: Toxic if swallowed. |
| | H315: Causes skin irritation. |
| | H318: Causes serious eye damage. |
| | H335: May cause respiratory irritation. |
| | R25: Toxic if swallowed. |
| | R37/38: Irritating to respiratory system and skin. |
| | R41: Risk of serious damage to eyes. |
| Legend to abbreviations: | PNEC = predicted no effect level |
| | DNEL = derived no effect level |
| | LD50 = median lethal dose |
| | LC50 = median lethal concentration |
| | EC50 = median effective concentration |
| | IC50 = median inhibitory concentration |
| | dw = dry weight |
| | bw = body weight |
| | cc = closed cup |
| | oc = open cup |
| | MUS = mouse |
| | GPG = guinea pig |
| | RBT = rabbit |
| | HAM = hamster |
| | HMN = human |
| | MAM = mammal |
| | PGN = pigeon |
| | IVN = intravenous |
| | SCU = subcutaneous |
| | SKN = skin |
| | DRM = dermal |
| | OCC = ocular/corneal |
| | PCP = phycico-chemical properties |
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| | 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 |
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| | be used only as a guide for safe handling, storage, transportation and disposal. We |
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