

2,3-DIFLUORO-4-NITROANISOLE

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Compilation date: 23/10/2008

Revision date: 23/11/2011

Revision No: 2

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

## 1.1. Product identifier

Product name: 2,3-DIFLUORO-4-NITROANISOLE

CAS number: 66684-59-1

Product code: PC2555

Synonyms: 2,3-DIFLUORO-4-METHOXYNITROBENZENE

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 Lipite 2.8.4

|        | 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 CHIP: Xi: R36/37/38 Classification under CLP: STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315 Most important adverse effects: Irritating to eyes, respiratory system and skin. . . . 2

| 2.2. | Label | elements |  |
|------|-------|----------|--|
|      |       |          |  |

Label elements under CLP:

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: P261: Avoid breathing dust.

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

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

### Label elements under CHIP:

Hazard symbols: Irritant.



Risk phrases: R36/37/38: Irritating to eyes, respiratory system and skin.

2.3. Other hazards

Other hazards: In use, may form flammable / explosive dust-air mixture.

**PBT:** This substance is not identified as a PBT substance.

### Section 3: Composition/information on ingredients

### 3.1. Substances

Chemical identity: 2,3-DIFLUORO-4-NITROANISOLE

### 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.

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5.2. Special hazards arising from the substance or mixture

| Exposure hazards:   | In combustion emits toxic fumes. Carbon oxides. Nitrogen oxides (NOx). Hydrogen fluoride (HF).  |   |
|---|---|---|
| 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 r   | neasures  |   |
| 6.1. Personal precautions, prot   | tective equipment and emergency procedures  |   |
|   | Refer to section 8 of SDS for personal protection details. If outside do not approach from  |   |
| Personal precautions.   | 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 c   | 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 section   | S   |   |
|   |   |   |
| Section 7: Handling and store   | 10  |   |
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| 7.1. Precautions for safe hand  |   | ] |
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| 7.1. Precautions for safe handl<br>Handling requirements:<br>7.2. Conditions for safe storag<br>Storage conditions:<br>Suitable packaging:<br>7.3. Specific end use(s)  | ing 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. e, including any incompatibilities Store in cool, well ventilated area. Keep container tightly closed. Must only be kept in original packaging.  | ] |
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Hand protection: Protective gloves.

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: Powder

Colour: White to yellow

Melting point/range °C: 96-99

Flash point °C: >110

9.2. Other information

Other information: Not applicable.

## 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.

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). Hydrogen fluoride (HF).

### 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: Not applicable.

#### 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 substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: No data available.

### Section 13: Disposal considerations

#### 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

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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# Section 16: Other information

| ther 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/qsar/qsar-tools/index.php?                |
|                            | c=TOXTREE   |
|                            | ~ Data predicted using computatioanl 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 3: | H315: Causes skin irritation.   |
|                            | H319: Causes serious eye irritation.  |
|                            | H335: May cause respiratory irritation.   |
|                            | R36/37/38: Irritating to eyes, respiratory system and skin.                                   |
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