

3-CHLORO-2-FLUOROPYRIDINE

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Compilation date: 02/09/2008

Revision date: SAP\_10/08/15

Revision No: 1

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

#### 1.1. Product identifier

Product name: 3-CHLORO-2-FLUOROPYRIDINE

CAS number: 1480-64-4
Product code: PC1914

### 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

**Tel:** 0161 337 9971 **Fax:** 0161 336 6932

UK

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: Skin Corr. 1A: H314; Acute Tox. 4: H302+312+332; Flam. Liq. 3: H226

Classification under CHIP: -: R10; Xn: R20/21/22; C: R34

Most important adverse effects: Flammable liquid and vapour. Harmful if swallowed, in contact with skin or if inhaled.

Causes severe skin burns and eye damage.

#### 2.2. Label elements

Label elements:

Hazard statements: H226: Flammable liquid and vapour.

H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.

H314: Causes severe skin burns and eye damage.

Signal words: Danger

Hazard pictograms: GHS02: Flame

GHS05: Corrosion

GHS07: Exclamation mark

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Precautionary statements: P260: Do not breathe vapours.

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

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

#### 2.3. Other hazards

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

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

## Section 3: Composition/information on ingredients

#### 3.1. Substances

Chemical identity: 3-CHLORO-2-FLUOROPYRIDINE

CAS number: 1480-64-4

#### 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. Consult a doctor.

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

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water

to drink immediately. 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. Nausea and stomach

pain may occur. There may be vomiting.

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

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

## Section 5: Fire-fighting measures

## 5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Carbon dioxide,

dry chemical powder, foam.

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

**Exposure hazards:** Flammable. Forms explosive air-vapour mixture. In combustion emits toxic fumes of

carbon dioxide / carbon monoxide. Hydrogen chloride (HCI). Hydrogen fluoride (HF).

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: 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. Turn

leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of

ignition.

### 6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

## 6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for

disposal by an appropriate method. Do not use equipment in clean-up procedure which

may produce sparks.

#### 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 mists in the air.

Smoking is forbidden. Use non-sparking tools. 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. Keep away from

sources of ignition. Prevent the build up of electrostatic charge in the immediate area.

Ensure lighting and electrical equipment are not a source of ignition. 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.

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### 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 sufficient ventilation of the area. Ensure lighting and electrical

equipment are not a source of ignition.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

## Section 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Unpleasant

Solubility in water: Not miscible or difficult to mix

Boiling point/range ℃: 162 Flash point ℃: 52

Relative density: 1.33 g/cm3

## 9.2. Other information

Other information: Refractive index: 1.4040

## 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. Stable at room temperature.

### 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. Hot surfaces. Sources of ignition. Flames.

# 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. Nitrogen oxides

(NOx). Hydrogen chloride (HCl). Hydrogen fluoride (HF).

## **Section 11: Toxicological information**

# 11.1. Information on toxicological effects

#### Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH DRM ING	Based on test data
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data

### Symptoms / routes of exposure

**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. Nausea and stomach

pain may occur. There may be vomiting.

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

# **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: MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND

**FEDERAL REGULATIONS** 

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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: UN2924

### 14.2. UN proper shipping name

Shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

## 14.3. Transport hazard class(es)

Transport class: 3 (8)

### 14.4. Packing group

Packing group: III

#### 14.5. Environmental hazards

Environmentally hazardous: No Marine pollutant: No

# 14.6. Special precautions for user

Tunnel code: D/E
Transport category: 3

# **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.

## **Section 16: Other information**

### 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/qsar/qsar-tools/index.php? 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: H226: Flammable liquid and vapour.

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H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.

H314: Causes severe skin burns and eye damage.

R10: Flammable.

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R34: Causes burns.

**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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