

RUBIDIUM FLUORIDE

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

# 1.1. Product identifier

Product name: RUBIDIUM FLUORIDE

CAS number: 13446-74-7

EINECS number: 236-603-2

Product code: IN3025

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 CHIP:	Xn: R20/21/22; Xn: R40
Classification under CLP:	Acute Tox. 4: H302+312+332; Carc. 2: H351
Most important adverse effects:	Harmful by inhalation, in contact with skin and if swallowed. Limited evidence of a
	carcinogenic effect.

### 2.2. Label elements

 Label elements under CLP:

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

 H351: Suspected of causing cancer.

 Signal words:
 Warning

 Hazard pictograms:
 GHS07: Exclamation mark

 GHS08: Health hazard



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

P308+313: IF exposed or concerned: Get medical advice/attention.

Label elements under CHIP:

Hazard symbols: Harmful.



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

R40: Limited evidence of a carcinogenic effect.

2.3. Other hazards

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

### Section 3: Composition/information on ingredients

# 3.1. Substances

### Chemical identity: RUBIDIUM FLUORIDE

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: Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the

surrounding fire should be used. Use water spray to cool containers.

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

Exposure hazards: In combustion emits toxic fumes. Hydrogen fluoride (HF). Metal oxides.

# 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. Persona	I precautions	, protective equipmen	nt and emergency procedures
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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 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 cool, well ventilated area. Keep container tightly closed. Product is hygroscopic.
 Take precautions to avoid contact with atmospheric moisture. 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

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Norkplace exposure	e limits:			Respirable dust	
State	8 hour TW	/A	15 min. STEL	8 hour TWA	15 min. STEL
UK	2.	5 mg/m3	-	-	
. Exposure controls	s				
Engineering me	easures: E	Ensure there	e is sufficient ventilation of	the area.	
Respiratory pro	otection: S	Self-containe	ed breathing apparatus mu	ist be available in case of em	ergency. Respiratory
	p	protective de	evice with particle filter.		
Hand pro	otection: F	Protective gloves.			
Eye pro	otection: S	Safety glass	es. Ensure eye bath is to h	hand.	
Skin pro	otection: F	Protective cl	othing.		
on 9: Physical and	d chemica	al properti	es		
. Information on ba	asic physica	al and chen	nical properties		
	State: S	Solid			
Boiling point/r				Melting point/rang	e° <b>C:</b> 795
	density: 3				
. Other information					
	rmation: N		llable.		
on 10: Stability ar	nd reactivi	ity			
1. Reactivity					
Re	eactivity: S	Stable under	r recommended transport of	or storage conditions.	
2. Chemical stabilit	ty				
Chemical	stability:	Stable under	normal conditions.		
3. Possibility of haz	-		normal conditions.		
-					
		Hazardous r	eactions will not occur unc	ler normal transport or storag	e conditions.
4. Conditions to ave	void				
Conditions t	to avoid: ⊦	Heat. Moist a	air. Humidity.		
5. Incompatible ma	aterials				
		Strona oxidis	sing agents. Strong acids.		
	to avoid: S	strong onlaid			
Materials t		-			
Materials t 6. Hazardous decor	mposition	products		ogen fluoride (HF). Metal oxic	65

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#### 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
Carcinogenicity		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 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
 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.

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# Section 14: Transport information

14.1. UN number

UN number: UNnone

14.2. UN proper shipping name

Shipping name: NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

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 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:	H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.
	H351: Suspected of causing cancer <state conclusively="" exposure="" if="" is="" it="" of="" proven<="" route="" th=""></state>
	that no other routes of exposure cause the hazard>.
	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
	R40: Limited evidence of a carcinogenic effect.
Legal disclaimer:	The material is intended for research purposes only and should be handled exclusively
	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

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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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