

EUROPIUM(III) NITRATE HYDRATE 99.9%

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Compilation date: 24/06/2003

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

#### 1.1. Product identifier

Product name: EUROPIUM(III) NITRATE HYDRATE 99.9%

**CAS number:** 100587-95-9

Product code: IN1777

## 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: O: R8; O: R8; Xi: R36/37/38

Classification under CLP: STOT SE 3: H335; Ox. Sol. 2: H272; Eye Irrit. 2: H319; Skin Irrit. 2: H315

Most important adverse effects: Contact with combustible material may cause fire. Contact with combustible material

may cause fire. Irritating to eyes, respiratory system and skin.

#### 2.2. Label elements

#### Label elements under CLP:

Hazard statements: H315: Causes skin irritation.

H319: Causes serious eye irritation.H335: May cause respiratory irritation.H272: May intensify fire; oxidiser.

Signal words: Danger

Hazard pictograms: GHS03: Flame over circle

GHS07: Exclamation mark

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

 ${\tt P280: Wear\ protective\ gloves/protective\ clothing/eye\ protection/face\ protection.}$ 

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Label elements under CHIP:

Hazard symbols: Oxidising.

Irritant.





Risk phrases: R8: Contact with combustible material may cause fire.

R8: Contact with combustible material may cause fire.

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

**Safety phrases:** S2: Keep out of the reach of children.

S22: Do not breathe dust.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

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: EUROPIUM(III) NITRATE HYDRATE 99.9%

# Section 4: First aid measures

## 4.1. Description of first aid measures

Skin contact: 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. 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 mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness. **Ingestion:** There may be irritation of the throat.

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**Inhalation:** There may be a feeling of tightness in the chest with shortness of breath.

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

Immediate / special treatment: Not applicable.

## 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: Oxidising. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Nitrogen oxides (NOx). 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. Personal precautions, protective equipment and emergency procedures

Personal precautions: Remove all incompatible materials as outlined in section 10 of SDS.

# 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: Transfer to a closable, labelled salvage container for disposal by an appropriate

method.

#### 6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

## Section 7: Handling and storage

#### 7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient 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 cool, well ventilated area. Keep container tightly closed. Avoid incompatible

materials and conditions - see section 10 of SDS. Product is hygroscopic. Take

precautions to avoid contact with atmospheric moisture. Store under Argon.

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.

#### 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

protective device with particle filter.

Hand protection: Protective gloves.Eye protection: Safety goggles.Skin protection: Protective clothing.

## Section 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

State: Crystals

Colour: Colourless

Oxidising: Oxidising (by EC criteria)

Solubility in water: Soluble

## 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. 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. Moist air. Humidity.

## 10.5. Incompatible materials

Materials to avoid: Organic materials.

## 10.6. Hazardous decomposition products

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

(NOx). Metal oxides.

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## **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 mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness. **Ingestion:** There may be irritation of the throat.

**Inhalation:** There may be a feeling of tightness in the chest with shortness of breath.

#### 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

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:** UN1477

14.2. UN proper shipping name

Shipping name: NITRATES, INORGANIC, N.O.S.

14.3. Transport hazard class(es)

Transport class: 5.1

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: 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 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: H272: May intensify fire; oxidiser.

H315: Causes skin irritation.

H319: Causes serious eye irritation. H335: May cause respiratory irritation.

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R8: Contact with combustible material may cause fire.

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

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