

#### MAGNESIUM TERTBUTOXIDE

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

#### 1.1. Product identifier

Product name: MAGNESIUM TERTBUTOXIDE

CAS number: 32149-57-8
EINECS number: 250-931-3
Product code: IN2475

#### 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: Flam. Sol. 2: H228; Skin Corr. 1B: H314; -: EUH014

Most important adverse effects: Flammable solid. Causes severe skin burns and eye damage. Reacts violently with

water.

# 2.2. Label elements

Label elements:

Hazard statements: H228: Flammable solid.

H314: Causes severe skin burns and eye damage.

EUH014: Reacts violently with water.

Signal words: Danger

Hazard pictograms: GHS02: Flame

GHS05: Corrosion





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**Precautionary statements:** P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. P260: Do not breathe dust.

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

P310: Immediately call a POISON CENTER/doctor/.

#### 2.3. Other hazards

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

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

## Section 3: Composition/information on ingredients

#### 3.1. Substances

Chemical identity: MAGNESIUM TERTBUTOXIDE

**CAS number:** 32149-57-8 **EINECS number:** 250-931-3

#### 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.

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

**Ingestion:** 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.

**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.

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

**Exposure hazards:** Highly flammable. Corrosive. May form flammable / explosive dust-air mixture. In

combustion emits toxic fumes of carbon dioxide / carbon monoxide. Magnesium oxides.

[cont...]

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#### 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. Notify the police and fire

brigade immediately. Eliminate all sources of ignition.

#### 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. 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: Smoking is forbidden. Keep container tightly closed. Close container after use or when

empty. Use non-sparking tools. 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 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.

Moisture 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.

## 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.

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Respiratory protection: Respiratory protective device with particle filter.

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

Odour: Odourless

Solubility in water: Reacts with water.

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

## 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. Magnesium

oxides.

# **Section 11: Toxicological information**

# 11.1. Information on toxicological effects

# Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated

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Serious eye damage/irritation	OPT	Hazardous: calculated
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#### 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 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: Transfer to a suitable container and arrange for collection by specialised disposal

company. 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: UN2921

## 14.2. UN proper shipping name

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

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## 14.3. Transport hazard class(es)

Transport class: 8 (4.1)

14.4. Packing group

Packing group: ||

14.5. Environmental hazards

Environmentally hazardous: No Marine pollutant: No

14.6. Special precautions for user

Tunnel code: E

Transport category: 2

## **Section 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

#### 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. The OECD QSAR-Toolbox for grouping chemicals into categories. Developed by LMC bulgaria.

http://echa.europa.eu/support/oecd-qsar-toolbox

~ 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: EUH014: Reacts violently with water.

H228: Flammable solid.

H314: Causes severe skin burns and eye damage.

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 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

[cont...]

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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.