

A THE CENTRAL GLASS CO., LTD. COMPAID-(4-TERT-BUTYLPHENYL)-4-(4-ISOPROPYLPHENYL)-1,2,4-TRIAZOLE-3-THIOL

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Revision No: 1

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

#### 1.1. Product identifier

Product name: 5-(4-TERT-BUTYLPHENYL)-4-(4-ISOPROPYLPHENYL)-1,2,4-TRIAZOLE-3-THIOL

CAS number: 261761-26-6 Product code: OR2408

# 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: F: R11; Xn: R20/21/22

Classification under CLP: Flam. Sol. 2: H228; Acute Tox. 4: H302+312+332

Most important adverse effects: Highly flammable. Harmful by inhalation, in contact with skin and if swallowed.

#### 2.2. Label elements

Label elements under CLP:

Hazard statements: H228: Flammable solid.

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

Signal words: Warning

Hazard pictograms: GHS02: Flame

GHS07: Exclamation mark





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

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P260: Do not breathe dust.

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

Label elements under CHIP:

Hazard symbols: Harmful.

Highly flammable.





Risk phrases: R11: Highly flammable.

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

#### 2.3. Other hazards

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

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

## Section 3: Composition/information on ingredients

#### 3.1. Substances

Chemical identity: 5-(4-TERT-BUTYLPHENYL)-4-(4-ISOPROPYLPHENYL)-1,2,4-TRIAZOLE-3-THIOL

### 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. 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 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.

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

Exposure hazards: Highly flammable. May form flammable / explosive dust-air mixture. In combustion emits

toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides (NOx). Sulphur oxides

(SOx).

#### 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: 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. Recommended storage temp 2-8  $^{\circ}\!\!\mathrm{C}.$ 

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.

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## 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:** 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: Solid

Odour: STENCH

Melting point/range ℃: 224-227

#### 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.

#### 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). Sulphur oxides (SOx)

# Section 11: Toxicological information

## 11.1. Information on toxicological effects

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#### Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH DRM ING	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 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

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: UN1325

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14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

Transport class: 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: 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.

c=TOXTREE

#### 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?

~ 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: H228: Flammable solid.

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

R11: Highly flammable.

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

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

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