

TOLUENE-D8 >99.50 ATOM % D

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Compilation date: 24/06/2010

**Revision date:** 19/11/2012

Revision No: 2

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

#### 1.1. Product identifier

Product name: TOLUENE-D8 >99.50 ATOM % D

CAS number: 2037-26-5
EINECS number: 218-009-5
Product code: DF90F

# 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; Xi: R38; Xn: R48/20; Xn: R63; Xn: R65; -: R67

Classification under CLP: Flam. Liq. 2: H225; Repr. 2: H361d; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3:

H336

Most important adverse effects: Highly flammable. Irritating to skin. Harmful: danger of serious damage to health by

prolonged exposure through inhalation. Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and

dizziness.

### 2.2. Label elements

#### Label elements under CLP:

Hazard statements: H225: Highly flammable liquid and vapour.

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness.

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H361d: Suspected of damaging the unborn child.

H373: May cause damage to organs through prolonged or repeated exposure.

Signal words: Danger

Hazard pictograms: GHS02: Flame

GHS07: Exclamation mark GHS08: Health hazard







Label elements under CHIP:

Hazard symbols: Highly flammable.

Harmful.





Risk phrases: R11: Highly flammable.

R38: Irritating to skin.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through

inhalation.

R63: Possible risk of harm to the unborn child.

R65: Harmful: may cause lung damage if swallowed.

R67: Vapours may cause drowsiness and dizziness.

Safety phrases: S16: Keep away from sources of ignition - No smoking.

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.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show

the label where possible).

#### 2.3. Other hazards

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

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

# Section 3: Composition/information on ingredients

#### 3.1. Substances

Chemical identity: TOLUENE-D8 >99.50 ATOM % D

# 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.

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**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.

# 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** Highly flammable. Forms explosive air-vapour mixture. Vapour may travel considerable

distance to source of ignition and flash back. In combustion emits toxic fumes. Carbon

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: 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.

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#### 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 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.

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:

# Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	50 ppm	100 ppm	191 mg/m3	384 mg/m3

#### 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

Boiling point/range ℃: 110 Flammability limits %: lower: 1.2

upper: 7 Flash point °C: 4

Autoflammability℃: 535 Vapour pressure: 29.1 hPa at 20.0 ℃

Relative density: 0.943

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#### 9.2. Other information

Other information: Not applicable.

# 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.

# 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.

# **Section 11: Toxicological information**

# 11.1. Information on toxicological effects

# **Toxicity values:**

Route	Species	Test	Value	Units
ORAL	RAT	LD50	>5580	mg/kg
DERMAL	RBT	LD50	12196	mg/kg
INHALATION	RAT	4H LC50	12500	mg/m3

# Relevant hazards for substance:

Hazard	Route	Basis	
Skin corrosion/irritation	DRM	Based on test data	
Reproductive toxicity		Based on test data	
STOT-single exposure	-	Based on test data	
STOT-repeated exposure	-	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.

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Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.Other information: Carcinogenicity IARC=3 : Not classifiable as to its carcinogenicity to humans.

# Section 12: Ecological information

# 12.1. Toxicity

#### **Ecotoxicity values:**

Species	Test	Value	Units
Lepomis macrochirus (Bluegill)	96H LC50	74-340	mg/l
Oncorhynchus mykiss (rainbow trout) -	96H LC50	7.63	mg/l
Daphnia magna	48H EC50	8	mg/l

# 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: UN1294

# 14.2. UN proper shipping name

Shipping name: TOLUENE

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# 14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: ||

14.5. Environmental hazards

Environmentally hazardous: No Marine pollutant: No

14.6. Special precautions for user

Tunnel code: \* D/E

Transport category: 2

# **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 3: H225: Highly flammable liquid and vapour.

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness.

H361d: Suspected of damaging the unborn child.

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

R11: Highly flammable.

R38: Irritating to skin.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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R63: Possible risk of harm to the unborn child.

R65: Harmful: may cause lung damage if swallowed.

R67: Vapours may cause drowsiness and dizziness.

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