

2,2,4,4-TETRAMETHYLPENTAN-3-ONE

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

1.1. Product identifier

Product name: 2,2,4,4-TETRAMETHYLPENTAN-3-ONE

CAS number: 815-24-7

EINECS number: 212-419-8

Product code: OR7421

Synonyms: HEXAMETHYLACETONE

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: -: R10

Classification under CLP: Flam. Liq. 3: H226

Most important adverse effects: Flammable.

2.2. Label elements

Label elements under CLP:

Hazard statements: H226: Flammable liquid and vapour.

Signal words: Warning

Hazard pictograms: GHS02: Flame



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		uge.
Precautionary statements:	P210: Keep away from heat/sparks/open flames/hot surfaces No smoking.	
	P280: Wear protective gloves/protective clothing/eye protection.	
Label elements under CHIP:		
Hazard symbols:	Symbol not required.	
Risk phrases:	R10: Flammable.	
Safety phrases:	S9: Keep container in a well-ventilated place.	
	S16: Keep away from sources of ignition - No smoking.	
	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: 2,2,4,4-TETRAMETHYLPENTAN-3-ONE

CAS number: 815-24-7

EINECS number: 212-419-8

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. Wash

immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Wash out mouth with water.

Inhalation: 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 fro	om the substance or mixture	
Exposure hazards:	Flammable. Forms explosive air-vapour mixture. In combustion emits toxic fumes of	
pool ouluoi	carbon dioxide / carbon monoxide.	
5.3. Advice for fire-fighters		
J.J. Auvice for file-lighters		
Advice for fire-fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact	
	with skin and eyes.	
Section 6: Accidental release r	neasures	
6.1. Personal precautions, prot	tective 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. Turn leaking containers leak-side	
	up to prevent the escape of liquid.	
6.2. Environmental precautions	5	
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.	
6.3. Methods and material for c	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.	
6.4. Reference to other section	S	
Section 7: Handling and storage	ge	
7.1. Precautions for safe handl	ing	
Handling requirements:	Smoking is forbidden. Use non-sparking tools. Keep container tightly closed. Close	
	container after use or when empty. Ensure there is sufficient ventilation of the area. Avoid	
	the formation or spread of mists in the air. Only use in fume hood.	
7.2 Conditions for safe storage	e, 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: No data available.

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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.
Respiratory protection:	Respiratory protection not required.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. Ensure eye bath is to hand.
Skin protection:	Protective clothing.
Section 9: Physical and chemic	al properties
9.1. Information on basic physi	cal and chemical properties
State:	Liquid
Boiling point/range °C:	152-153 Flash point ℃: 34
Relative density:	0.824
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.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values: No data available.

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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 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: UN1224

14.2. UN proper shipping name

Shipping name: KETONES, LIQUID, N.O.S.

14.3. Transport hazard class(es)

Transport class: 3

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14.4. Packing group		
Packing group:	III	
14.5. Environmental hazards		
Environmentally hazardous:	No Marine pollutant: No	
14.6. Special precautions for us	ser	
Tunnel code:	D/E	
Transport category:	3	
Section 15: Regulatory information	ation	
15.1. Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture	
15.2. Chemical Safety Assessm	nent	
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:	H226: Flammable liquid and vapour.	
	R10: Flammable.	
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