

METHYL CYCLOHEXANE

Page: 1 Compilation date: 14/10/2008 Revision date: SAP Revision No: 2

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

1.1. Product identifier

 Product name:
 METHYL CYCLOHEXANE

 CAS number:
 6493-77-2

 EINECS number:
 229-376-6

 Product code:
 OR0842

 Synonyms:
 METHYL CYCLOHEXANE

 METHYL CYCLOHEX-3-ENE-1-CARBOXYLATE 97%

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 CLP:	STOT SE 3: H335; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315
Classification under CHIP:	-: R10; Xi: R36/37/38
Most important adverse effects:	Flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. May
	cause respiratory irritation.

2.2. Label elements

Label elements:

Hazard statements: H226: Flammable liquid and vapour.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

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Signal words:	Warning
Hazard pictograms:	GHS02: Flame
	GHS07: Exclamation mark
Precautionary statements:	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition
	sources. No smoking.
	P261: Avoid breathing vapours.
	P280: Wear protective gloves/protective clothing/eye protection/face protection.
2.3. Other hazards	
Other hazards:	In use, may form flammable / explosive vapour-air mixture.
	This product is not identified as a PBT/vPvB substance.
Section 3: Composition/informa	ation on ingredients
•	
3.1. Substances	
Chemical identity:	METHYL CYCLOHEXANE
CAS number:	6493-77-2
EINECS number:	229-376-6
Section 4: First aid measures	
4.1. Description of first aid mea	sures
-	
Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash
	immediately with plenty of soap and water.
	Bathe the eye with running water for 15 minutes. Consult a doctor.
-	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 a	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.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may
	cause coughing or wheezing.
4.3. Indication of any immediate	medical attention and special treatment needed
Section 5: Fire-fighting measur	es

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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	n the substance or mixture	
Exposure hazards:	Flammable. Forms explosive air-vapour mixture. In combustion emits toxic fumes of	
	carbon dioxide / carbon monoxide.	
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 m	easures	
6.1. Personal precautions, prote	ective 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 co	ontainment 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 sections		
Section 7: Handling and storag	9	
7.1. Precautions for safe handli	na	
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 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.	
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/p	ersonal protection
8.1. Control parameters	
Workplace exposure limits:	No data avallable.
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.
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency.
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 physical and chemical properties	
State:	Liquid
Colour:	Colourless to pale yellow.
Boiling point/range °C:	185 Flash point ℃: 60
Relative density:	1.02
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.

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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

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 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.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

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

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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 informati	ion	
14.1. UN number		
UN number:	UN3272	
14.2. UN proper shipping name		
Shipping name:	ESTERS, N.O.S.	
14.3. Transport hazard class(es)	
Transport class:	3	
14.4. Packing group		
Packing group:	III	
14.5. Environmental hazards		
Environmentally hazardous:	No Marine pollutant: No	
14.6. Special precautions for us	jer	
Tunnel code:	D/E	
Transport category:	3	
Section 15: Regulatory informa	tion	
15.1. Safety, health and environ	mental regulations/legislation specific for the substance or mixture	
15.2. Chemical Safety Assessm	ent	
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		
	This safety data sheet is prepared in accordance with Commission Regulation (EU) No	
	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.	
	453/2010.	
	453/2010. * Data predicted using computational software. Toxtree - Toxic Hazard Estimation by	
	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?	[cont]

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	~ 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:	H226: Flammable liquid and vapour.
	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
	R10: Flammable.
	R36/37/38: Irritating to eyes, respiratory system and skin.
Legend to abbreviations:	PNEC = predicted no effect level
	DNEL = derived no effect level
	LD50 = median lethal dose
	LC50 = median lethal concentration
	EC50 = median effective concentration
	IC50 = median inhibitory concentration
	dw = dry weight
	bw = body weight
	cc = closed cup
	oc = open cup
	MUS = mouse
	GPG = guinea pig
	RBT = rabbit
	HAM = hamster
	HMN = human
	MAM = mammal
	PGN = pigeon
	IVN = intravenous
	SCU = subcutaneous
	SKN = skin
	DRM = dermal
	OCC = ocular/corneal
	PCP = phycico-chemical properties
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	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

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