

METHYL 3-CYCLOPROPYL-3-OXOPROPANOATE

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Compilation date: 02/09/2013

Revision No: 1

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

1.1. Product identifier

Product name: METHYL 3-CYCLOPROPYL-3-OXOPROPANOATE

CAS number: 32249-35-7

Product code: OR301123

Synonyms: METHYL 3-CYCLOPROPYL-3-OXOPROPIONATE

(3-METHOXY-3-OXOPROPANOYL)CYCLOPROPANE

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: | Xn: R22; Xi: R36/37/38; -: R52/53 | | | |
| Classification under CLP: | Acute Tox. 4: H302; Eye Irrit. 2: H319; Aquatic Chronic 3: H412; Skin Irrit. 2: H315; STOT | | | |
| | SE 3: H335 | | | |
| Most important adverse effects: | Harmful if swallowed. Irritating to eyes, respiratory system and skin. Harmful to aquatic | | | |
| | organisms, may cause long-term adverse effects in the aquatic environment. | | | |
| 2.2. Label elements | | | | |
| Label elements under CLP: | | | | |
| Hazard statements: | H302: Harmful if swallowed. | | | |
| | H315: Causes skin irritation. | | | |
| | H319: Causes serious eye irritation. | | | |

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

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 Signal words:
 Warning

 Hazard pictograms:
 GHS07: Exclamation mark

 Image: 2
 Image: 2

 Precautionary statements:
 P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

 Label elements under CHIP:
 Image: 2

 Hazard symbols:
 Harmful.

 Fisk phrases:
 R22: Harmful if swallowed.
R36/37/38: Irritating to eyes, respiratory system and skin.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the
aquatic environment.
 Image: 2

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: METHYL 3-CYCLOPROPYL-3-OXOPROPANOATE

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. |
| 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.

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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. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: 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 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.

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.

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. 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. The floor of the storage room must be impermeable to prevent the escape of liquids. Recommended storage temp 2-8 °C.

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/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

8.2. Exposure controls

| Engineering measures: | Ensure there is sufficient ventilation of the area. The floor of the storage room must be | |
|-------------------------|---|--|
| | impermeable to prevent the escape of liquids. | |
| 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

Colour: Colourless to pale yellow.

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.

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.

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

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11.1. Information on toxicological effects

Relevant hazards for substance:

| Hazard | Route | Basis |
|-------------------------------|-------|--------------------|
| Acute toxicity (ac. tox. 4) | ING | Based on test data |
| 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. 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.

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: Toxic to aquatic organisms.

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.

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Section 14: Transport information

14.1. UN number

UN number: UNnone

14.2. UN proper shipping name

Shipping name: NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

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 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: | H302: Harmful if swallowed. | | | |
| | H315: Causes skin irritation. | | | |
| | H319: Causes serious eye irritation. | | | |
| | H335: May cause respiratory irritation. | | | |
| | H412: Harmful to aquatic life with long lasting effects. | | | |
| | R22: Harmful if swallowed. | | | |
| | R36/37/38: Irritating to eyes, respiratory system and skin. | | | |
| | R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the | | | |
| | aquatic environment. | | | |

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