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

1.1 Product identifier

Product name: Propylene glycol 1-methyl ether 2-acetate

Part number: DRE-C16527500
CAS Number: 108-65-6
EC number: 203-603-9
Index number: 607-195-00-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the mixture: Reference material for laboratory use only

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
LGC Limited
Queens Road
Teddington
Middlesex TW11 0LY
UNITED KINGDOM

Further information obtainable from:
Product safety department
eMail: sds-request@lgcgroup.com

1.4 Emergency telephone number: +44 (0) 20 8943 7000 (Monday - Friday: 8am - 5pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

Signal word Warning

Hazard statements
H226 Flammable liquid and vapour.

(Contd. on page 2)
Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Substances

- CAS No. Description
  108-65-6 2-methoxy-1-methylethyl acetate
- Identification number(s) None
- EC number: 203-603-9
- Index number: 607-195-00-7
- RTECS: AI8925000
- Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Rinse mouth. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing agents:
  CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.
SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Ensure adequate ventilation.
- 6.4 Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
  Store in cool, dry place in tightly closed receptacles.
- Information about fire - and explosion protection:
  Keep ignition sources away - Do not smoke.
  Protect against electrostatic charges.
- 7.2 Conditions for safe storage, including any incompatibilities
  - Storage:
    - Requirements to be met by storerooms and receptacles:
      Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.
      Store only in the original receptacle unless other advice is given on the CoA.
      Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
    - Information about storage in one common storage facility: Store away from foodstuffs.
    - Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s)
  No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- 8.1 Control parameters
  - Ingredients with limit values that require monitoring at the workplace:
    - CAS: 108-65-6 2-methoxy-1-methylethyl acetate
    - WEL Short-term value: 548 mg/m³, 100 ppm
      Long-term value: 274 mg/m³, 50 ppm
    - Additional information: Lists used were valid at the time of SDS preparation.
8.2 Exposure controls

- Personal protective equipment:

- General protective and hygienic measures: Wash hands before breaks and at the end of work.

- Respiratory protection:
  Not required.
  Use suitable respiratory protective device in case of insufficient ventilation.

- Protection of hands:
  The glove material has to be impermeable and resistant to the product/substance/preparation.
  Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
  The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

Material of gloves Butyl rubber, BR
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
- Appearance:
  Form: Liquid
  Colour: Colourless
  Odour: Ester-like
  Odour threshold: Not determined.

- pH-value: 4

- Change in condition
  Melting point/freezing point: -67 °C
  Initial boiling point and boiling range: 148-151 °C

- Flash point: 44 °C
- Flammability (solid, gas): Not determined.
Product name: Propylene glycol 1-methyl ether 2-acetate

- Ignition temperature: 315 °C
- Decomposition temperature: Not determined.
- Auto-ignition temperature: Not determined.
- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
  - Explosion limits:
    - Lower: 1.5 Vol %
    - Upper: 10.8 Vol %
- Vapour pressure at 20 °C: 3.37 hPa
- Density at 20 °C: 0.97 g/cm³
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not determined.
- Solubility in / Miscibility with water at 20 °C: 220 g/l
- Partition coefficient: n-octanol/water: Not determined.
- Viscosity:
  - Dynamic at 20 °C: 1.2 mPas
  - Kinematic: Not determined.

9.2 Other information
  - No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity
  - Stable under normal conditions.
  - No further relevant information available.

10.2 Chemical stability
  - Stable under normal conditions.

10.3 Possibility of hazardous reactions
  - May form flammable/explosive vapour-air mixture.

10.4 Conditions to avoid
  - Sources of ignition
    - Heat.

10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition products:
  - Formation of toxic gases is possible during heating or in case of fire.

(Contd. on page 6)
SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50/LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>8,532 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal</td>
<td>&gt;5,000 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

Primary irritant effect:

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- PBT: Not applicable.
- vPvB: Not applicable.

12.2 Persistence and degradability

- No further relevant information available.

12.3 Bioaccumulative potential

- No further relevant information available.

12.4 Mobility in soil

- No further relevant information available.

Additional ecological information:

- General notes:
  Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
  Do not allow undiluted product to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
  PBT: Not applicable.
  vPvB: Not applicable.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods

  Recommendation
  Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

  European waste catalogue
  Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
**Product name:** Propylene glycol 1-methyl ether 2-acetate

- **Uncleaned packaging:**
- **Recommendation:** Dispose of in accordance with national regulations.

### SECTION 14: Transport information

- **14.1 UN-Number**
  - ADR, IMDG, IATA: UN3272
  - ADR: 3272 ESTERS, N.O.S. (2-methoxy-1-methylethyl acetate)
  - IMDG, IATA: ESTERS, N.O.S. (2-methoxy-1-methylethyl acetate)

- **14.3 Transport hazard class(es)**
  - ADR, IMDG, IATA
    - Class: 3 Flammable liquids.
    - Label: 3

- **14.4 Packing group**
  - ADR, IMDG, IATA: III

- **14.5 Environmental hazards:**
  - Not applicable.

- **14.6 Special precautions for user**
  - Warning: Flammable liquids.
  - Danger code (Kemler): 30
  - EMS Number: F-E,S-D
  - Stowage Category: A

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
  - Not applicable.

- **Transport/Additional information:**
  - **ADR**
    - Limited quantities (LQ): 5L
    - Excepted quantities (EQ): Code: E1
      - Maximum net quantity per inner packaging: 30 ml
      - Maximum net quantity per outer packaging: 1000 ml
      - Transport category: 3
      - Tunnel restriction code: D/E
  - **UN "Model Regulation"**:
    - UN 3272 ESTERS, N.O.S. (2-METHOXY-1-METHYLETHYL ACETATE), 3, III

(Contd. on page 8)
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I Substance is not listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements: 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements: 50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user’s intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

Abbreviations and acronyms:

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 3: Flammable liquids – Category 3

Sources


Data compared to the previous version altered, All sections have been updated.