



Qualikems

Qualikems Lifesciences Pvt. Ltd.

(Formerly known as Qualikems fine chem Pvt Ltd)

Works : Plot No. 68-69,G.I.D.C Industrial Estate,Nandesari,Vadodara-391340 (Gujarat)

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

Product identifiers

Product name : **Hexylene Glycol**

CAS-No. : **107- 41- 5**

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

Identified uses : Laboratory chemicals, Industrial & for professional use only.

Details of the supplier of the safety data sheet

Company : Qualikems Lifesciences Pvt Ltd

Works : Plot No. 68.69,G.I.D.C
Industrial Estate, Nandesari,
Vadodara-391340 (Gujarat)

Emergency telephone number

Emergency Phone # : +91-265-2841531 (9:00am - 6:30 pm) [Office hours]

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



GHS07

Signal word

Warning

Hazard statement(s)

H315

Causes skin irritation.

H319

Causes serious eye irritation.

Precautionary statement(s)

P280

Wear eye protection/ face protection.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313

If eye irritation persists: Get medical advice/ attention.

Supplemental Hazard Statements

none

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : (±)-2-Methyl-2,4-pentanediol
MPD

Formula : C₆H₁₄O₂
Molecular weight : 118.18 g/mol
CAS-No. : 107-41-5
EC-No. : 203-489-0
Index-No. : 603-053-00-3

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Classification	Concentration
2-Me hylpentane-2,4-diol			
CAS-No.	107-41-5	Skin Irrit. 2; Eye Irrit. 2; H315,	<= 100 %
EC-No.	203-489-0	H319	
Index-No.	603-053-00-3		

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

Extinguishing media Suitable

extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

SECTION 6: Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Store at Ambient Condition.
Storage class (TRGS 510): Combustible liquids

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection**Control parameters****Exposure controls****Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment**Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

- | | |
|---|--|
| a) Appearance | Form: liquid
Colour: colourless |
| b) Odour | sweet, mild |
| c) Odour Threshold | No data available |
| d) pH | 6.0 - 8.0 at 118.2 g/l at 25 °C |
| e) Melting point/freezing point | Melting point/range: -40 °C - lit. |
| f) Initial boiling point and boiling range | 197 °C - lit. |
| g) Flash point | 94 °C - closed cup |
| h) Evaporation rate | No data available |
| i) Flammability (solid, gas) | No data available |
| j) Upper/lower flammability or explosive limits | Upper explosion limit: 7.4 %(V)
Lower explosion limit: 1.3 %(V) |
| k) Vapour pressure | 0.02 mmHg at 20 °C |
| l) Vapour density | 4.08 - (Air = 1.0) |
| m) Relative density | 0.925 g/cm ³ at 25 °C |
| n) Water solubility | ca.118.2 g/l at 20 °C |
| o) Partition coefficient: n-octanol/water | log Pow: -0.14 |
| p) Auto-ignition temperature | No data available |
| q) Decomposition temperature | No data available |
| r) Viscosity | No data available |
| s) Explosive properties | No data available |
| t) Oxidizing properties | No data available |

Other safety information

- | | |
|-------------------------|--------------------|
| Relative vapour density | 4.08 - (Air = 1.0) |
|-------------------------|--------------------|

SECTION 10: Stability and reactivity

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid

Avoid moisture.

Incompatible materials

Strong acids, Strong oxidizing agents, Strong reducing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male and female - > 4,000 mg/kg(2-Methylpentane-2,4-diol)
(OECD Test Guideline 420)

LD50 Dermal - Rabbit - 7,892 mg/kg(2-Methylpentane-2,4-diol)

Skin corrosion/irritation

Skin - Rabbit(2-Methylpentane-2,4-diol)

Result: Skin irritation - 24 h

Serious eye damage/eye irritation

No data available(2-Methylpentane-2,4-diol)

Respiratory or skin sensitisation

Maximisation Test - Guinea pig(2-Methylpentane-2,4-diol)

Result: negative

(OECD Test Guideline 406)

Germ cell mutagenicity

Chromosome aberration test in vitro(2-Methylpentane-2,4-diol)

Chinese hamster ovary cells

Result: negative

Carcinogenicity

No data available(2-Methylpentane-2,4-diol)

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No toxicity to reproduction(2-Methylpentane-2,4-diol)

Specific target organ toxicity - single exposure

No data available(2-Methylpentane-2,4-diol)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available(2-Methylpentane-2,4-diol)

Additional Information

Repeated dose toxicity - Rat - male and female - Oral - No observed adverse effect level - 450 mg/kg(2-Methylpentane-2,4-diol)
RTECS: SA0810000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(2-Methylpentane-2,4-diol)

SECTION 12: Ecological information**Toxicity**

Toxicity to fish	flow-through test LC50 - Pimephales promelas (fathead minnow) - 8,690 mg/l - 96 h(2-Methylpentane-2,4-diol) (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 5,410 mg/l - 48 h(2-Methylpentane-2,4-diol) (OECD Test Guideline 202)
Toxicity to algae	static test EC50 - Pseudokirchneriella subcapitata (green algae) - > 429 mg/l - 72 h(2-Methylpentane-2,4-diol) (OECD Test Guideline 201)

Persistence and degradability

Biodegradability aerobic - Exposure time 28 d(2-Methylpentane-2,4-diol)
Result: 81 % - Readily biodegradable
(OECD Test Guideline 301F)

Bioaccumulative potential

No data available

Mobility in soil

No data available(2-Methylpentane-2,4-diol)

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects

No data available

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information**UN number**

ADR/RID: -

IMDG: -

IATA: -

UN proper shipping name ADR/RID:

Not dangerous goodsIMDG: Not
dangerous goodsIATA: Not
dangerous goods

14.3 Transport hazard class(es)			
ADR/RID: -	IMDG: -	IATA: -	
14.4 Packaging group			
ADR/RID: -	IMDG: -	IATA: -	
14.5 Environmental hazards			
ADR/RID: no	IMDG Marine pollutant: no	IATA: no	
14.6 Special precautions for user			
No data available			

SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H315	Causes skin irritation.
H319	Causes serious eye irritation.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Qualikems Lifesciences Pvt. Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.qualikems.com for additional terms and conditions of sale.