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Safety Data Sheet

SECTION 1: Identification of the substance

1.1 Product identifier

Trade name:	1-(2-hydroxyethyl)-piperazine-GDGT HEPIPA-GDGT
Synonyms:	Glycerol dialkyl glycerol tetraether
Cas. Nr.:	Not available

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

Use of the Substance:	Laboratory chemical, Research substance only
Recommended restrictions on use:	Not for use in humans

1.3 Details of the supplier of the safety data sheet

Company:	NovoArc GmbH Pottendorfer Straße 23-25/4, 4-1 1120 Vienna Austria
Telephone:	+43 1 3451428
E-mail address:	office@novoarc.at

1.4 Emergency telephone number

Int. Emergency Telephone number: +1 703-527-3887 Chemtrec 24-hours

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SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Classification (REGULATION (EC) No 1272/2008):

Physical hazards:	Not classified
Health hazards:	Not classified
Environmental Hazards:	Not classified
Additional information:	Not applicable

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements:	Caution - substance not yet tested completely.
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2.3 Other hazards

Not applicable

SECTION 3: Composition/information on ingredients**3.1 Substances:**

Trade name:	1-(2-hydroxyethyl)-piperazine-GDGT HEPIPA-GDGT
Synonyms:	Glycerol dialkyl glycerol tetraether
Formula:	$C_{98}H_{188}N_4O_6$
Molecular weight:	1518.60 g/mol
CAS-No.:	Not available

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SECTION 4: First aid measures

4.1 Description of first aid measures:

General advice:	Take off immediately all contaminated clothing
If inhaled:	Move to fresh air. Call a physician immediately.
In case of skin contact:	Wash off immediately with plenty of water and soap Cover wound with sterile dressing.
In case of eye contact:	Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.
If swallowed:	Rinse mouth. Drink plenty of water. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed.

Risks:	No information available.
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4.3 Indication of any immediate medical attention and special treatment needed

Treatment:	Symptomatic treatment (decontamination, vital functions).
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water, Foam, Dry chemical, Carbon dioxide (CO ₂)
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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: In case of fire and/or explosion do not breathe fumes.

Can be released in case of fire:

Carbon oxides and nitrogen oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No Data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear personal protective equipment
Keep people away from spill/leak

6.2 Environmental precautions

Environmental precautions: Try to prevent further leakage or spillage
Keep the product away from drains or water courses

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Wear personal protective equipment
Use 70% ethanol or soap and water to clean surfaces
Keep in suitable, closed containers for disposal

6.4 Reference to other sections

For personal protection see section 8. For disposal considerations see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use personal protective equipment as required. No special handling advice are necessary.

7.2 Conditions for safe storage, including any incompatibilities:

Stored at -20°C. Keep in properly labelled containers.

7.3 Specific end use(s)

For research only.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures:	General industrial hygiene practice
Eye protection:	Safety glasses with side-shields
Hand protection:	Wear suitable gloves Glove material: Compatible chemical-resistant gloves.
Skin and body protection:	laboratory coat
Respiratory protection:	In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.
Protective measures:	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Only use protective equipment in accordance with national/international regulations. Follow the national regulations about wearing personal protective equipment

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and the warranty given by the manufacturer for the safe function.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Liquid, oily appearance
Colour:	Colorless to slightly yellow
Odour:	No data available
Odour Threshold:	No data available
pH:	No data available
Melting point/range:	Not applicable
Boiling point/boiling range:	No data available
Flash point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid, gas):	No data available
Upper explosion limit / Upper flammability limit:	No data available
Lower explosion limit / Lower flammability limit:	No data available
Vapour pressure:	Not applicable
Relative vapour density:	Not applicable
Relative density:	No data available
Bulk density:	No data available
Solubility(ies)	

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Water solubility:	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity, dynamic	Not tested
Explosive properties	Not tested
Oxidizing properties	No data available

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: no data available

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity: no data available

IARC: None of the ingredients is listed.

ACGIH: None of the ingredients is listed.

NTP: None of the ingredients is listed.

OSHA: None of the ingredients is listed.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information

RTECS: Not available

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SECTION 12: Ecological information**12.1 Toxicity**

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment PBT/vPvB assessment

not available as chemical safety assessment not required/not conducted.

12.6 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.
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Contaminated packaging:	Dispose of as unused product.
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SECTION 14: Transport information

Not available

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance**

Not applicable

15.2 Chemical safety assessment

A chemical safety assessment was not carried out

SECTION 16: Other 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., Novoarc and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.