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## Safety Data Sheet

### SECTION 1: Identification of the substance

#### 1.1 Product identifier

|             |                                      |
|-------------|--------------------------------------|
| Trade name: | GDGT                                 |
| Synonyms:   | Glycerol dialkyl glycerol tetraether |
| Cas. Nr.:   | 3081983-78-7                         |

#### 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<br>Pottendorfer Straße 23-25/4, 4-1<br>1120 Vienna<br>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. |
|--------------------|------------------------------------------------|

**2.3 Other hazards**

Not applicable

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

|                   |                                      |
|-------------------|--------------------------------------|
| Trade name:       | GDGT                                 |
| Synonyms:         | Glycerol dialkyl glycerol tetraether |
| Formula:          | $C_{86}H_{164}O_6$                   |
| Molecular weight: | 1294.25 g/mol                        |
| CAS-No.:          | 3081983-78-7                         |

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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.<br>Call a physician immediately.                                                                                   |
| In case of skin contact: | Wash off immediately with plenty of water and soap<br>Cover wound with sterile dressing.                                              |
| In case of eye contact:  | Rinse immediately with plenty of water for at least 15 minutes.<br>Keep eye wide open while rinsing.<br>Call a physician immediately. |
| If swallowed:            | Rinse mouth.<br>Drink plenty of water.<br>Call a physician immediately.                                                               |

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

|        |                           |
|--------|---------------------------|
| Risks: | No information available. |
|--------|---------------------------|

### 4.3 Indication of any immediate medical attention and special treatment needed

|            |                                                           |
|------------|-----------------------------------------------------------|
| Treatment: | Symptomatic treatment (decontamination, vital functions). |
|------------|-----------------------------------------------------------|

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

|                               |                                                                                                                                                                             |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media: | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br><br>Water, Foam, Dry chemical, Carbon dioxide (CO <sub>2</sub> ) |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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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

## 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:                                           | Colourless 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. |
|----------|----------------------------------------------------------------------------|

|                         |                               |
|-------------------------|-------------------------------|
| Contaminated packaging: | Dispose of as unused product. |
|-------------------------|-------------------------------|

**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.