

GLUCOSE ANHYDROUS**GLU01 – GLU04****SECTION 1 Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Identification of the product : Raw material
Product code : GLU01 – GLU04
Trade name : D-(+)-Glucose Anhydrous
CAS number : 50-99-7
Molecular Formula : C₆H₁₂O₆
Molecular Weight : 180.16 g/mol

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

1.2.1 Relevant identified uses : For research purposes only
1.2.2 Uses advised against : No additional information available

1.3. Details of the supplier of the safety data sheet

Company identification : Formedium Ltd.
King's Lynn, England, PE31 6DJ
Tel: +44(0)1485 609069
Web: www.Formedium.com
E-mail: info@formedium.com

1.4. Emergency telephone number

Emergency telephone number : Tel: +44(0)1485 609069 (local time : 9.00 to 17.00)
National Poison Information Centre :Europe UK : +44 0845 4647 (this service is only available to health professionals)
See www.toxbase.org for a local poison centre

SECTION 2 Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Not regulated

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008**

Hazards pictograms code : None
Precautionary statements : None

2.3 Other hazards

None under normal conditions.

GLUCOSE ANHYDROUS**GLU01 – GLU04****SECTION 3 Composition/information on ingredients****Components** : This product is not classified as hazardous.

Substance name:	Contents	CAS No.	EC No.
D-(+)-Glucose Anhydrous	99.5%	50-99-7	200-075-1

SECTION 4 First aid measures**4.1. Description of first aid measures**

- Inhalation** : If breathed in, move person into fresh air. If not breathing, give artificial respiration.
- Skin contact** : Wash off with soap and plenty of water.
- Eye contact** : : Flush eyes with water as a precaution.
- Ingestion** : Never give anything by mouth to an unconscious person.
Rinse mouth with water.

4.2. 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.

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

No data available.

SECTION 5 Fire-fighting measures**5.1. Extinguishing media**

Suitable extinguishing media : Water spray, alcohol-resistant foam, dry chemical or Carbon Dioxide.

5.2. Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Carbon oxides.

5.3. Advice for firefighters

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for fire fighting if necessary.

5.4. Further information

No data available.

GLUCOSE ANHYDROUS**GLU01 – GLU04****SECTION 6 Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

6.2 . Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal see section 13.

SECTION 7 Handling and storage**7.1. Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventative fire protection. For precautions see section 2.2

7.2. Conditions for safe storage, including any incompatibilities

Storage area and containers : Store at room temperature in a dry, cool area.
Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

Specific end use(s) : For research purposes only

SECTION 8 Exposure controls/personal protection**8.1. Control parameters****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

General industrial hygiene practice.

Personal protective equipment**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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standards EN 374 derived from it.

Body protection

Choose body protection in relation to its type, the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dust are desired, use type N95 (US) or type P1 (EN143) dust masks. 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.

GLUCOSE ANHYDROUS**GLU01 – GLU04****SECTION 9 Physical and chemical properties****9.1. Information on basic physical and chemical properties****Safety data**

Form	: Crystalline powder
Colour	: White.
Odour	: No data available
Odour threshold	: No data available
Flash point (°C)	: No data available
Solubility in water	: Completely miscible
Relative Density	: No data available
Vapour density (air = 1)	: No data available
Vapour pressure	: No data available
Melting point / Freezing point	: Melting point / range 150 – 152 °C
Boiling point (°C)	: No data available.
Partition coefficient: n-octanol / water	: log Pow : not determined
pH	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: Not classified as flammable
Viscosity	: No data available
Auto ignition temperature (°C)	: Not classified as self heating
Decomposition temperature	: No data available
Oxidising properties	: Not classified as oxidizing
Explosive properties	: Not classified as explosive
Lower explosion limit	: Dust can form an explosive mixture in air
Upper explosion limit	: Dust can form an explosive mixture in air

9.2. Other information

No additional information available

GLUCOSE ANHYDROUS**GLU01 – GLU04****SECTION 10 Stability and reactivity****10.1. Reactivity**

No data available.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials to avoid

Strong oxidizing agents.

10.6. Hazardous decomposition products

No data available.

SECTION 11 Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**: LD50 Oral – rat – 25,800 mg/Kg
Remarks : Behavioural : Coma, Cyanosis, Diarrhoea**Skin corrosion / irritation**

: No data available

Serious eye damage / eye irritation

: No data available

Respiratory or skin sensitisation

: No data available

Germ cell mutagenicity

: Mouse – lymphocyte – mutation in mammalian somatic cells

Carcinogenicity

IARC:

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

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 : LZ6600000

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

11.2. Additional Information**Endocrine disrupting properties**

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

GLUCOSE ANHYDROUS**GLU01 – GLU04****SECTION 12 Ecological information****12.1. Toxicity**

No data available.

12.2. Persistence and degradability

No additional information available.

12.3. Bioaccumulative potential

No additional information available.

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

PBT / vPvB assessment not available as chemical safety assessment not required.

12.6. Other adverse effects

No data available.

12.7. Endocrine disrupting properties

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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.

GLUCOSE ANHYDROUS**GLU01 – GLU04****SECTION 14 Transport information****14.1. UN Number**

Not applicable : Not classified as dangerous in the meaning of transport regulations.

General information**14.2. UN Proper shipping name**

Not applicable.

14.3. Transport Hazard Class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

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

This safety datasheet complies with the requirements of Regulation (EU) No. 2015/830.

15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16 Other information**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. Formedium Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

Revision

: Complete SDS revision

End of document