

**D-(+)-SORBITOL****SOR02 – SOR03****SECTION 1 Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Identification of the product : Raw material  
Product code : SOR02 – SOR03  
Trade name : D-(+)-Sorbitol  
CAS number : 50-70-4  
EC Number : 200-061-5  
Molecular Formula : C<sub>6</sub>H<sub>14</sub>O<sub>6</sub>  
Molecular Weight : 182.17 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)  
NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours)

**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.

**D-(+)-SORBITOL****SOR02 – SOR03****SECTION 3 Composition/information on ingredients****Components** : This product is not classified as hazardous.

Substance name:	Contents	CAS No:	EC-No:
D-(+)-Sorbitol	>=97.0%	50-70-4	200-061-5

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

<b>General</b>	:	Seek medical attention if ill effect or irritation develops.
<b>Inhalation</b>	:	If breathed in, move person into fresh air.
<b>Skin contact</b>	:	Wash skin with mild soap and water.
<b>Eye contact</b>	:	Flush eyes with water as a precaution.
<b>Ingestion</b>	:	Rinse mouth with water.

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

Symptoms / effects : Diarrhoea. Gastrointestinal complaints.

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

No additional information 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** : Under fire conditions hazardous fumes (Carbon oxides (COx)) will be present.**5.3. Advice for firefighters****Special protective equipment for fire-fighters** : Wear proper protective equipment.  
Prevent fire fighting water from entering the environment.**5.4. Further information**

No data available.

**D-(+)-SORBITOL****SOR02 – SOR03****SECTION 6 Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel****Protective equipment**

: Wear suitable protective clothing.

Use good housekeeping practices to avoid rendering dust airborne.

: No additional information available.

**6.1.1. For non-emergency personnel****6.2. Environmental precautions**

Prevent entry to sewers and public waters.

**6.3. Methods and material for containment and cleaning up**

Sweep up dry powder and dispose properly. Dispose in a safe manner in accordance with local / national regulations.

**6.4. Reference to other sections**

For disposal see section 13.

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

Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities****Storage conditions**

: Store in a dry, well-ventilated area.

Store at room temperature.

**7.3. Specific end use(s)****Specific end use(s)**

: For research purposes only

**SECTION 8 Exposure controls/personal protection****8.1. Control parameters**

No additional information available.

**8.2. Exposure controls**

General industrial hygiene practice.

**Personal protective equipment****Skin / hand 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.

**D-(+)-SORBITOL****SOR02 – SOR03****SECTION 9 Physical and chemical properties****9.1. Information on basic physical and chemical properties****Safety data**

<b>Form</b>	: Crystalline powder
<b>Colour</b>	: White.
<b>Odour</b>	: Odourless
<b>Odour threshold</b>	: No data available
<b>Flash point</b>	: > 100°C
<b>Solubility in water</b>	: 2350 g/L (at 25 °C)
<b>Density</b>	: 1.49 g/cm3
<b>Relative vapour density (at 20°C)</b>	: No data available
<b>Vapour pressure</b>	: No data available
<b>Melting point</b>	: Melting point / range = 94 - 96°C
<b>Freezing point</b>	: No data available
<b>Boiling point (°C)</b>	: 105°C
<b>Partition coefficient: n-octanol / water</b>	: -2.2 (experimental)
<b>pH</b>	: approx. 6 – 7 (100 g/L at 20°C)
<b>Relative evaporation rate (butylacetate = 1)</b>	: No data available
<b>Flammability (solid, gas)</b>	: Not classified as flammable
<b>Viscosity</b>	: No data available
<b>Auto ignition temperature (°C)</b>	: 420°C
<b>Decomposition temperature</b>	: No data available
<b>Oxidising properties</b>	: Not classified as oxidizing
<b>Explosive properties</b>	: Not classified as explosive
<b>Explosive limits</b>	: No data available

**9.2. Other information**

<b>Bulk density</b>	: 450 kg/cm3
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**D-(+)-SORBITOL****SOR02 – SOR03****SECTION 10 Stability and reactivity****10.1. Reactivity**

Stable under normal conditions of storage, handling and use.

**10.2 Chemical stability**

Stable under recommended storage, handling and use conditions.

**10.3. Possibility of hazardous reactions**

No dangerous reactions known under conditions of normal use.

**10.4. Conditions to avoid**

Heat

**10.5. Incompatible materials to avoid**

Strong oxidizers

**10.6. Hazardous decomposition products**

When heated to decomposition emits dangerous fumes. COx.

**SECTION 11 Toxicological information****11.1. Information on toxicological effects**

Acute oral toxicity	: LD50 oral rat : 15900 mg/Kg
Skin corrosion / irritation	: Not classified. pH = 5 - 7 (100 g/L at 20°C)
Serious eye damage / eye irritation	: Not classified (100 g/L at 20°C)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Additional information	: RTECS : LZ4290000

**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.

**SECTION 12 Ecological information****12.1. Toxicity**

No additional information available.

**12.2. Persistence and degradability**

Product is biodegradable.

**12.3. Bioaccumulative potential**

Log Pow	: -2.2 (experimental)
Bioaccumulation potential	: Bioaccumulation unlikely.

**D-(+)-SORBITOL****SOR02 – SOR03****SECTION 12 Ecological Information (continued)****12.4. Mobility in soil**

No additional information available.

**12.5. Results of PBT and vPvB assessment**

No additional information available.

**12.6. Other adverse effects**

Additional information : Avoid release to the environment.

**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****Waste treatment methods:** Dispose in a safe manner in accordance with local / national regulations.  
Avoid release to the environment.**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**