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VAT No GB 896 9965 19

Version: Discofinechem2
Revision date : 13.12.2024

MATERIAL SAFETY DATA SHEET

Ribitol

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers:
Product name: Ribitol
Product number: 0000488813
Brand: Discovery
Reach No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require registration or the registration is envisaged for a later Registration deadline.
Cas No.: 488-81-3

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses: laboratory chemicals, manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company:	Discovery Fine Chemicals Ltd Unit 4A, Old Forge Road, Ferndown Ind. Estate, Wimborne, Dorset, BH21 7RR. United Kingdom
Telephone:	+44 (0)1202 874517
Fax:	+44 (0)845 0944 385
E-mail:	discovery@discofinechem.com

1.4 Emergency telephone : +44 (0)7912 646956

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Not a hazardous substance or mixture according to regulation (EC) No.1272/2008.
2.2 Label elements
Labelling according Regulation (EC) No 1272/2008
Not a hazardous substance or mixture according to regulation (EC) No.1272/2008.
2.3 Other hazards
None
Precautionary Statements
P261 Avoid breathing dust
P281 Use personal protective equipment as required.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3. COMPOSITION/INFORMATION ON INGREDIENTS
3.1 Substances
Ribitol
Formula: C5H12O5, Molecular Weight: 152.15 g/mol
Cas No: 488-81-3
EC No: 207-685-7

No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 Description of first aid measures
General advice
Show this safety data sheet to the doctor in attendance.
If inhaled - If breathed in, move person into fresh air.
In case of skin contact – Wash off with soap and plenty of water.
In case of eye contact - Rinse eyes with plenty of water and remove contact lenses.
If swallowed
Drink water. Consult doctor if feeling unwell.
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

5. FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media – use water spray, alcohol resistant foam, dry chemical or carbon dioxide (CO2)
Unsuitable extinguishing media – for this substance no limitations of extinguishing agents are given.
5.2 Special hazards arising from the substance or mixture
Carbon oxides. Nitrogen oxides (NOx). Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.
5.3 Advice for firefighters – wearing self-contained breathing apparatus.
5.4 Further information - no data available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapours or mist or gas.
6.2 Environmental precautions – Do not let product enter drain.
6.3 Methods and materials for containment and cleaning up – sweep up and shovel. Keep in closed containers.
6.4 Reference to other sections - For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
See section 2.2
7.2 Conditions for safe storage, including any incompatibilities
Store at room temperature. Keep container tightly closed in a dry and well-ventilated place.
7.3 Specific end use(s) - no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.
8.2 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 - 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.
Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril®
Splash protection

Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested: Dermatril®
Body Protection – Choose appropriate body protection. 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. Dust masks type P1 (EU EN 143) may be used for a higher level of protection. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
a) Appearance - Form: Powder, Colour: White
b) Odour - no data available
c) Odour Threshold - no data available
d) Melting point/freezing point – no data available
e) Initial boiling point and boiling range - no data available
f) Flammability (solid, gas) - no data available
g) Upper/lower flammability or explosive limits - no data available
h) Flash point – not applicable
i) Autoignition temperature - no data available
j) Decomposition temperature - no data available
k) pH - no data available
l) Viscosity – viscosity,kinematic: no data available
- viscosity dynamic: no data available
m) Water solubility – no data available
n) Partition coefficient: no data available
o) Vapour pressure - no data available
p) Density - no data available
Relative density – no data available
q) Relative vapour density - no data available
r) Particle characteristics - no data available
s) Explosive properties – no data available
t) Oxidizing properties - no data available
9.2 Other safety information - no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available
10.2 Chemical stability
stable under standard storage conditions
10.3 Possibility of hazardous reactions
Violent reactions possible with: Oxidizing agents
10.4 Conditions to avoid
no data available
10.5 Incompatible materials
Strong oxidizing agents
10.6 Hazardous decomposition products
In the event of fire see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity
Oral – no data available
Inhalation: No data available
Dermal – no data available
Skin corrosion/irritation - no data available
Serious eye damage/eye irritation

Eyes - no data available
Respiratory or skin sensitization
no data available.
Germ cell mutagenicity
No data available
Carcinogenicity
No data available
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

11.2 Additional Information
RTECS: TY2900000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
After swallowing of large amounts: Diarrhea, Nausea, Vomiting, Convulsions
The following applies to aliphatic amines in general: irritations after contact with eyes and skin. Mucosal irritations, coughing, and dyspnoea after inhalation. This substance should be handled with particular care. Under given conditions, contact with nitrites or nitric acid can lead to the formation of nitrosamines, which have shown themselves to be carcinogenic in animal experiments.
However, when the product is handled appropriately, hazardous effects are unlikely to occur.
Handle in accordance with good industrial hygiene and safety practice.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION
12.1 Toxicity – No data available
12.2 Persistence and degradability - no data available
12.3 Bio-accumulative potential - no data available
12.4 Mobility in soil - no data available
12.5 Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT),or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.
12.6 Endocrine disrupting properties
No data available
12.7 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Product
Waste material may be offered to a licensed disposal company. contaminated packaging may be disposed of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number
ADR/RID: - IMDG: - IATA: -
14.2 UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: 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

Further Information

Not classified as dangerous in the meaning of transport regulations

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 (EC) No. 1907/2006.

16. OTHER INFORMATION

Precautionary Statements

P261 Avoid breathing dust

P281 Use personal protective equipment as required.

Further information

WARRANTY

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.

APPENDIX

ABBREVIATIONS FULL TEXT

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
ALARP As low as is reasonably practicable
CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging Regulations
COSHH Control of Substances Hazardous to Health EC Number European Community Number
EC50 Effective Concentration 50%
ECHA European Chemicals Agency
ELINCS European List of Notified Chemical Substances
EINECS European Inventory of Existing Commercial Chemical Substances GHS Globally Harmonised System HSE Health & Safety Executive UK
IATA International Air Transport Association
IM Intramuscular
IMDG The International Maritime Dangerous Goods Code
IP Intraperitoneal
IV Intravascular
LD50 Lethal Dose 50%
LOEC Lowest Observable Effective Concentration
LTEL Long Term Exposure Limit
NOEC No Observable Effective Concentration
OECD Organisation for Economic Cooperations and Development
OSHA European Agency for Safety and Health at work
PBT Persistent Bioaccumulative and Toxic substance
PPE Personal Protective Equipment
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
RID Regulations Concerning the International Carriage of Dangerous Goods by Rail
SC Subcutaneous
SDS Safety Data Sheet
SIEF Substance Information Exchange Forum

STEL Short Term Exposure Limit
STOT (RE) Specific Target Organ Toxicity – repeated exposure
STOT (SE) Specific Target Organ Toxicity – single exposure
SVHC Substance of Very High Concern
VOC Volatile Organic Compounds
vPvB Very Persistent and Very Bioaccumulative
WEL Workplace Exposure Limits