

DR. J. PHARMACHEM PVT. LTD.

Regd. Office : 722/AB/15, "Nirmal", Laxmi Park Colony, Navi Peth, Pune - 411030, India
Telephone : +91 (20) 24530071
Email : info@jpharmachem.com, Web : www.jpharmachem.com
Factory : Plot No. - 311, Sector- 10, Bhosari, Pune, India, 411035



(an ISO 9001:2016 Certificate Company)

Safety Data Sheet

GLYCOLURIL

Revision date :

Page: 1/7

Version : 3.0

NUMBER

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifiers

Chemical Name	Glycoluril
CAS NO.	496-46-8

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

1. Glycoluril is used as slow release nitrogen fertilizer.
2. It is used in the water treatment as swimming pool water disinfectants.
3. It is used as slimicide enhancer in pulp and paper processing.

Details of the supplier of the safety data sheet

COMPANY

DR. J. PHARMACHEM PVT LTD
722/AB/15, "NIRMAL", Laxmi Park Colony, Navi
Peth,
Pune - 411030
Maharashtra, India
Telephone : +91-20-24530071
Email - sales@jpharmachem.com

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Human Health	Acute toxicity, Oral (Category 4), H302 For the full text of the H-Statements mentioned in this Section, see Section 16
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Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word

Warning

H302

Harmful if swallowed

Precautionary statement(s)

none

none

Other hazards

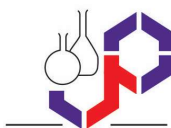
none

3 COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Component

Chemical Name	Perhydroimidazo(4,5-D)imidazole-2,5-dione
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CAS NO	496-46-8
EC Number	207-821-5
Molecular Formula	C ₄ H ₆ N ₄ O ₂
Molecular Weight	142.12 g/mol.
Concentration	97 % Min. Other impurities and unreacted components 3 %.

4 FIRST AID MEASURES

Description of first aid measures

General advice

Consult a physician.
Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air.
If not breathing, give artificial respiration.
Consult a physician.

In case of skin contact

Wash off with soap and plenty of water.
Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person.
Rinse mouth with water.
Consult a physician.

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

Indication of any immediate medical attention and special treatment needed

No data available

5 FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO_x)

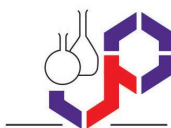
Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

6 ACCIDENTAL RELEASE MEASURES



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Personal precautions protective equipment and emergency procedures

Use personal protective equipment.
Avoid dust formation.
Avoid breathing vapours, mist or gas.
Ensure adequate ventilation.
Avoid breathing dust.
For personal protection see section 8.

Environmental precautions

Do not let product enter drains

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust.
Sweep up and shovel.
Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13

7 HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes.
Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
Normal measures for preventive fire protection.
For precautions see section 2.2.

Information about protection against explosions and fires

No data available

Conditions for safe storage including any incompatibilities

Store in cool place.
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Combustible Solids

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

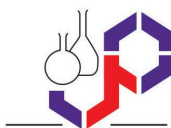
8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.
Wash hands before breaks and at the end of workday

Eye/face protection



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Safety glasses with side-shields conforming to EN166 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.

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 standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEKP2 (EU EN 143) respirator cartridges.

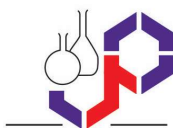
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9 PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance	beige powder
b) Odour	No data available
c) Odour Threshold	No data available
d) pH (% solution in water)	No data available
e) Melting point/freezing point	Melting point/range: > 300 Å°C - lit.
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid or gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available



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m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	log Pow: -1.279
p) Autoignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

Bulk Density	No data available
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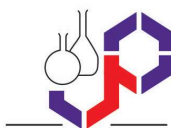
10 STABILITY AND REACTIVITY

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx) Other decomposition products - No data available In the event of fire: see section 5

11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity	Harmful if swallowed
Acute oral toxicity	LD50 Rat: > 2,000 mg/kg
Skin corrosion/irritation	No data available Perhydroimidazo[4,5-d]imidazol e-2,5-dione
Serious eye damage/eye irritation	No data available Perhydroimidazo[4,5-d]imidazol e-2,5-dione
Respiratory or skin sensitization	No data available Perhydroimidazo[4,5-d]imidazol e-2,5-dione
Germ cell mutagenicity	No data available Perhydroimidazo[4,5-d]imidazol e-2,5-dione
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as



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Reproductive toxicity

probable, possible or confirmed human carcinogen by IARC.

Specific target organ toxicity - single exposure

No data available(Perhydroimidazo[4,5-d]imidazole-2,5-dione)

Specific target organ toxicity - repeated exposure

No data available(Perhydroimidazo[4,5-d]imidazole-2,5-dione)

Aspiration hazard

No data available

RTECS

No data available(Perhydroimidazo[4,5-d]imidazole-2,5-dione)

Not available

Signs And Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Perhydroimidazo[4,5-d]imidazole-2,5-dione)

12 ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and degradability

Biodegradation

No data available

Bio accumulative potential

No data available

Mobility in soil

No data available(Perhydroimidazo[4,5-d]imidazole-2,5-dione)

Results of PBT and vPvB assessment

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

Other adverse effects

No data available

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

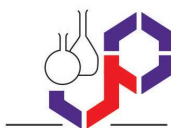
Product

Offer surplus and non-recyclable solutions to a licensed disposal company.
Contact a licensed professional waste disposal service to dispose of this material.
Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.

14 TRANSPORT INFORMATION



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UN number

ADR/RID

IMDG

IATA

Not dangerous goods

Not dangerous goods

Not dangerous goods

UN proper shipping name

ADR/RID

IMDG

IATA

Not dangerous goods

Not dangerous goods

Not dangerous goods

Transport hazard class(es)

ADR/RID

IMDG

IATA

Not dangerous goods

Not dangerous goods

Not dangerous goods

Packaging group

ADR/RID

IMDG

IATA

Not dangerous goods

Not dangerous goods

Not dangerous goods

Environmental hazards

ADR/RID

IMDG Marine pollutant

IATA

no

no

no

Special precautions for user

No data available

15 REGULATORY INFORMATION

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.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16 OTHER INFORMATION

H302

Harmful if swallowed.

Month of Creation

Aug 2023

Month of Revision

Aug 2027