



R & S P H A R M C H E M

R&S PHARMCHEM COMPANY LTD

RM#601, 21 Dong, 3468 Nong, Hunan Rd
Pudong, Shanghai, China, 201315
Tel: +86-139-7799-6986, Fax: +86-21-5102-6644
Email: info@rspharmchem.com

Material Safety Data Sheet

1. IDENTIFICATION OF SUBSTANCE

Trade Name: Cyclosporin A
Product Number: 2002
Supplier: R&S Pharmchem Co., Ltd
Rm# 601, #21 Dong, No.3468 Hunan Rd.
Shanghai,China,201315
Tel: +86-139-7799-6986
Fax: +86-21-5102-6644
Http://www.rspharmchem.com

2. COMPOSITION/DATA ON COMPONENTS:

Synonyms : Cyclosporine
Formula : $C_{62}H_{111}N_{11}O_{12}$
Molecular Weight : 1.202,00 g/mol
CAS-No.: 59865-13-3

3. HAZARDS IDENTIFICATION:

Risk advice to man and the environment

May cause cancer. May impair fertility. Also harmful if swallowed.

4. 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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

5. FIRE FIGHTING MEASURES:

Suitable extinguishing media

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

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.



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6. ACCIDENTAL RELEASE MEASURES:

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for cleaning up

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

7. HANDLING AND STORAGE:

Handling

Avoid exposure - obtain special instructions before use. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

Personal protective equipment as follows:

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Eye protection

Safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.



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9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance

Form: powder
Colour: white

Safety data

pH: no data available
Melting point: no data available
Boiling point: no data available
Flash point: no data available
Ignition temperature: no data available
Lower explosion limit: no data available
Upper explosion limit: no data available

Solubility:

Soluble in methanol, ethanol, acetone, ethyl acetate, chloroform, diethyl ether; slightly soluble in hexane, petroleum ether; insoluble in water.

10. STABILITY AND REACTIVITY:

Storage stability

Stable under recommended storage conditions.

Conditions to avoid

Heat.

Materials to avoid

Alkali metals, Aluminum, Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.

Carbon oxides, nitrogen oxides (NO_x)

11. TOXICOLOGICAL INFORMATION:

Acute toxicity

LD50 Oral - rat - 1.480 mg/kg

Remarks: Behavioral: Muscle contraction or spasticity. Diarrhoea Skin and Appendages: Other: Hair.

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

May cause reproductive disorders.

Signs and Symptoms of Exposure

Nausea, Vomiting, Tremors, Diarrhoea, elevated blood pressure, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion Harmful if swallowed.

Target Organs Immune system., Kidney, Liver, Blood



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12. ECOLOGICAL INFORMATION:

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

no data available

Further information on ecology

no data available

13. DESPOSAL CONSIDERATION:

Product

Observe all federal, state, and local environmental regulations. 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 chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION:

ADR/RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATIONS:

Labelling according to EC Directives

Hazard symbols

T Toxic

R-phrase(s)

R45 May cause cancer.

R60 May impair fertility.

R22 Also harmful if swallowed.

S-phrase(s)

S53 Avoid exposure - obtain special instructions before use.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Caution - substance not yet tested completely.

Restricted to professional users.

16. OTHER INFORMATION:

The above information is believed to be correct based on our present knowledge but does not purport to be complete. For research use, only by trained personnel. The burden of safe use of this material rests entirely with user.

R&S Pharmchem Co., Ltd disclaims all liability for any damage resulting use of this material.