



# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : L 10717  
Product Name : LITHIUM SLPHATE

Manufacturer / supplier identification

Company : NICE Chemicals (P) Ltd. , Cochin , India  
Tel - 0484 2800212 , 2802755

Contact For Information : Tel . No. – 0484 2802536 Fax : 0484 2802483

Emergency Telephone No. : 0484 2801583 Telefax No. : 0484 2802483

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS-No. : 10102-25-7  
Molar mass : 127.96 EC –No.: 233-820-4  
Molecular formula :  $\text{Li}_2\text{O}_4\text{S} \cdot \text{H}_2\text{O}$

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## 3. HAZARDS IDENTIFICATION

No evaluative data are available . A classification according to categories of danger as specified in Directive 67/548/EEC and laid down in the legislation of the country concerned can therefore not be made . In this context , hazardous properties can therefore not be excluded.

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## 4. FIRST AID MEASURES : After skin contact: Wash off with Plenty of water.

Remove contaminated clothing.

After inhalation : fresh air.

After swallowing : Make victim drink plenty of water,  
induce vomiting, summon doctor.

After eye contact : Rinse out with plenty of water with the  
eyelid held wide open.

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- 5. FIRE – FIGHTING MEASURES:** Suitable extinguishing media : In adaption to materials stored in the immediate neighbourhood !

Special risks: Development of hazardous combustion gase or vapours possible in the event of fire. The following may develop in event of fire: sulfur oxides.

Special protective equipment for fire fighting : Do not stay in dangerous zone without suitable chemical protection clothing and self-conmtained breathing apparatus.

Other information : Non- combustible.

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- 6. ACCIDENTAL RELEASE MEASURES:** Person –related precautionary measures : Avoid generation of dusts;

do not inhale dusts .

Procedures for cleaning /absorpion: Take up dry. Forward for disposal.  
Clean up effected area.

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- 7. HANDLING AND STORAGE:** Handling : No further requirements.

Storage : Tightly closed . Dry.

Storage temperature : no restrictions .

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION** : Personal protective equipment :  
Respiratory protection : required when dusts are generated.

Eye protection : required

Hand protection : required

industrial hygiene : Change contaminated clothing.

Wash hands after working with substance.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Solid
Colour	:	White
Odour	:	Odourless
PH value	:	
At 50g/l H <sub>2</sub> O (20°C)	:	4.5-6.0
Melting temperature	:	120 ° C
Boiling temperature	:	Not available
Ignition temperature	:	Not available
Flash point	:	Not available
Explosion limits lower	:	Not available
Upper	:	Not available
Vapour pressure	:	Not available
Relative vapour density	:	Not available
Density (20°C)	:	2.05 g/cm <sup>3</sup>
Bulk density	:	940 kg/m <sup>3</sup>
Solubility in water (20°C)	:	340 g/l

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**10. STABILITY AND REACTIVITY :** Conditions to be avoided : Heating.  
Substances to be avoided : No information available.

Hazardous decompositin :products : In the event of fire : sulfur  
oxides.

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**11. TOXICOLOGICAL INFORMATION:** Acute toxicity: Quantitative ddata on the toxicity of this  
product

are not available.

Further toxicological information :

After skin contat : Irritations .

After eye contact : Irritations , mucosal irritations.

After swallowing : Vomiting,diarrhoea.

After absorption of toxic quantities : Impaired vision ,drowsiness,  
cardiovascular failure.

The following applies to lithium copounds in general : when handled  
or used inappropriately , the absorption of large quantities is  
followed by CNS disorders , agitation ,spasms, ataxia (impaired  
locomotor coordination ) due to disturbed electrolyte balance .

Further data: The product should be handled with the care usual when  
dealing with chemicals.

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**12. ECOLOGICAL INFORMATION:** Ecotoxic effects : Quantitative data on the ecological effect of this product are not available.

Further ecologic data : The following applies to lithium compounds in general : biological effects: fish : toxic from 100 mg/l up ; Daphnia toxic from 16 mg/l up ; toxic from 0.2 mg/l up (values calculated as Li).

The following applies to sulfate in general : biological effects : fish : toxic as from 7 g/l ; bacteria ; toxic as from 2.5 g/l.

No ecological problems are to be expected when the product is handled and used with due care and attention .

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### **13. DISPOSAL METHOD**

There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations . We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste .

Disposal in compliance with official Regulations. Handle contaminated packaging as In the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled

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**14. TRANSPORT INFORMATION** : No subject to transport regulations.

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### 15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : -----

R-phrases : -----

S-phrases : -----

Water pollution class : 1 (slightly polluting substance )

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### 16. OTHER INFORMATION

Reason for alteration

General update .

Addition of water pollution class.

The information contained here in is based on the present state of our knowledge.

It characterizes the product with regard to the appropriate safety precautions.

It doesnot represent a guarantee of the properties of the product.

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