



## SAFETY DATA SHEET

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

Catalogue No. : A 30205  
Product Name : **D-ALANINE 99%**

*Manufacturer / supplier identification*

Company : NICE CHEMICALS PVT.LTD. , Cochin , India  
Tel - 0484 2800212 , 2802755

Contact for Information: Tel . No. – 0484 2802536 Fax : 0484 2802483  
Emergency Telephone No. : 0484 2801583 Tele fax No. : 0484 2802483

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS-No : 302-72-7  
EC –No. : 206-126-4  
Molar mass : 89.09 g/mol  
Molecular formula :  $C_3H_7NO_2$

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### 3. HAZARDS IDENTIFICATION

No hazardous product as specified in Directive 67/548/EEC.

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### 4. FIRST AID MEASURES

After inhalation : Fresh air.

After skin contact : wash off with plenty of water.

After eye contact : Rinse out with plenty of water.

After swallowing : Make victim drink plenty of water. Consult doctor if feeling unwell.

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### 5. FIRE – FIGHTING MEASURES

Suitable extinguishing media : In adaption to materials stored in the immediate neighbourhood.

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

Special protective equipment for fire fighting : Do not stay in dangerous zone without self-contained breathing apparatus.

Other information : Contain escaping vapours with water.

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### 6. ACCIDENTAL RELEASE MEASURES

Procedures for cleaning/absorption : Take up dry. Forward for disposal. Clean up affected area.

Person-related precautionary measures : Avoid generation of dusts; do not inhale dusts.

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### 7. HANDLING AND STORAGE

Handling : No further requirements.

Storage : Tightly closed. Dry. At +5<sup>0</sup>C to + 30<sup>0</sup> C.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

*Personal protective equipment :*

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.



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Respiratory protection : required when dust are generated.  
Eye protection : required  
Hand protection : use recommended  
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 : weak characteristic odour  
PH value at 100 g/l H<sub>2</sub>O (20<sup>0</sup>C): 5.5 – 6.5  
Melting temperature : 264 – 296 <sup>0</sup>C (decomposition)  
Boiling temperature : Not available  
Ignition temperature : Not available  
Flash point : Not available  
Explosion limits Lower: Not available  
Upper : Not available  
Density(20<sup>0</sup>C) : 1.42 g/ cm<sup>3</sup>  
Bulk density : ~ 580 Kg/m<sup>3</sup>  
Solubility in water(25<sup>0</sup>C) : 167 g/l  
Ethanol (20<sup>0</sup>C) : sparingly insoluble

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### 10. STABILITY AND REACTIVITY

*Conditions to be avoided* : No information available..

*Substance to be avoided* : Strong oxidizing.

*Hazardous decomposition products* : In the event of fire : see chapter 5.

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### 11. TOXICOLOGICAL INFORMATION:

Acute toxicity : Quantitative data on the toxicity of this product are not available.

Further toxicological information : This is a non-essential amino acid that occurs in many forms in natural protein. Hazardous properties are relatively improbable.

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 ecological data : Degradability : BOD : 0.942 g/g ; ThOD :1.090 g/g ;  
COD 77% of ThOD.

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

#### *Product*

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 that you corresponding laws and regulations. We recommend contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

#### *Packaging*

Disposal in compliance with official regulations. Handle contaminated packaging 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: -----

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### **16. OTHER INFORMATION**

Reason for alteration : General update.

*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 does not represent a guarantee of the properties of the product.*

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