



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : A 10725
Product Name : Adipic acid

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

2. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms : Butane- 1,4 –dicarboxylic acid
Molar mass : 146.14
CAS-No : 124-04-9
EC-No. : 204-673-3
Molecular Formula : $C_6H_{10}O_4$

3. HAZARDS IDENTIFICATION : Irritating to eyes.

4. FIRST AID MEASURES

After skin contact: wash off with plenty
of water. Remove contaminated clothing.



SAFETY DATA SHEET

Catalogue No. : A 10725

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After eye contact: rinse out with plenty of water

With eyelids held open. Summon eye specialist.

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

After inhalation: Fresh air.

5. FIRE – FIGHTING MEASURES

Suitable extinguishing media: powder , water, foam, CO₂

Special risks: Development of hazardous combustion gases or vapours possible in the event of fire. Combustible.

Special protective equipment for fire fighting:

Do not stay in dangerous zone without self contained breathing apparatus.

Other information: Contain escaping vapours with water.

6. ACCIDENTAL RELEASE MEASURES

Person related measures: Avoid generation of dusts. Do not inhale dusts

Procedures for cleaning/ absorption: Take up dry

Clean up affected area.

7. HANDLING AND STORAGE

Handling: No further requirements

Storage: Tightly closed . dry at +15 °C to +25 °C.



SAFETY DATA SHEET

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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

Protective clothing should be selected for the working place depending on concentration and quantity of the hazardous substance handled. The resistance

of the protective clothing to chemicals should be ascertained with the respective supplier

Industrial hygiene: Change contaminated clothing.

Application of skin protective barrier cream recommended.

Wash hands after working with substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	solid
Colour	:	white
Odour	:	odourless
Melting temperature	:	150-153 °C
Boiling temperature	:	~205 °C
PHvalue	:	4
Ignition temperature	:	405 °C
Flash point	:	196 °C
Explosion limits lower	:	not available
Upper:		not available



SAFETY DATA SHEET

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Relative vapour density : Not available

Density : not available

Solubility in

water (25⁰C) : 14.4 g/l

water(45⁰C): 24 g/l

10. STABILITY AND REACTIVITY

Conditions to be avoided: no information available

Substance to be avoided: no information available

Hazardous decomposition products: no information available

Further information: Dust explosion possible.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity :

LD₅₀(oral, rat): 11000 mg/kg

Further toxicological information

After inhalation of dusts: Irritation symptoms in the respiratory tract.

After eye contact: irritant effect

After skin contact: irritations

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12. ECOLOGICAL INFORMATION

Behaviour in environmental compartments:

Distribution: log P (oct): 0.093

Ecotoxic effects: P.promelasLC₅₀: 97 mg/96h

Further ecologic data: degradability: BOD₅ 0.598g/g;

BOD 36% of ThOD/ 5d;ThOD: 1.423 g/g

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 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 .

Packaging : 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 : Not subject to transport regulations

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : Xi Irritant

R- Phrases : 36 Irritating to eyes

S-phrases :

Water pollution class : 0 (non polluting substance)

16. OTHER INFORMATION

Reason for alteration

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions . It does not represent a guarantee of the properties of the product.
