



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : A 11517
Product Name : Caffeine anhydrous

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 : 1,3,7 trimethylxanthine
CAS-No : 58-08-2
Molecular formula : $C_8H_{10}N_4O_2$
EC-No. : 200-362-1
Molar mass : 194.19

3. HAZARDS IDENTIFICATION : harmful if swallowed

4. FIRST AID MEASURES

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

After eye contact : rinse out with plenty of water with eyelids held open .

Summon eye specialist.

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

After inhalation: fresh air.



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5. FIRE – FIGHTING MEASURES

Suitable extinguishing media : powder, foam, water

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

The following may develop in the event of fire: nitrous gases, toxic vapours.

Other information: Contain escaping vapours with water. Prevent fire fighting water from entering surface water or ground water.

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

6. ACCIDENTAL RELEASE MEASURES

Procedures for cleaning / absorption :

Take up dry. Forward for disposal. Cleanup affected area.

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

7. HANDLING AND STORAGE

Handling : No further requirements.

Storage : Tightly closed . Dry. Protected from light. At +15⁰ C to+25⁰ C



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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 . Wash hands after working with substance .

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : solid
Colour : white
Odour : odourless
Melting temperature: 235-238 °C
Boiling temperature : not available
PHvalue : 5.5-6.5
Ignition temperature: Not available
Flash point : not applicable
Explosion limits lower : Not available
Upper : Not available
Relative vapour density : Not available
Density (20°C) : 1.23 g/cm³
Solubility in
water(20°C) : sparingly soluble
water (100°C): soluble



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10. STABILITY AND REACTIVITY

Conditions to be avoided : strong heating Substance to be avoided : strong oxidising agents. Hazardous decomposition products : The following may develop in the event of fire: nitrous gases, toxic vapours.

Further information: sublimable; dust explosion possible.

11. TOXICOLOGICAL INFORMATION

Acute toxicity : LD₅₀ (oral, rat): 261-383mg/Kg
LC₅₀ (inhalation, rat): 4.10-4.94mg/l/4h

Further toxicological information

After eye contact: no irritations.

After skin contact: no irritations.

After swallowing : After absorption of toxic quantities: diarrhoea, vomiting, agitation, headache.

Systemic effects: drop in blood pressure, tachycardia.

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

12. ECOLOGICAL INFORMATION

Behaviour in environmental compartments: Distribution:

log P (oct) : -0.07; No bioaccumulation is to be expected (log P (o/w)<1).

Ecotoxic effects

Biological effects: toxic for aquatic organisms.

Forms toxic mixtures in water, dilution measures notwithstanding, Fish toxicity: L.idus LC₅₀: 145 mg/l; L.idus LC₅₀: 87 mg/l/96h;

Daphnia toxicity: daphnia EC₅₀: 182 mg/l/48h;

Approx . acute toxicity: cold blooded animals: LC 19 mg/l;



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Further ecologic data:

Do not allow to enter waters, waste water or soil.

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.

14. TRANSPORT INFORMATION : not subjected to transport regulations.

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : Xn Harmful
R- Phrases : 22 Harmful if swallowed
S-phrases :
Water pollution class : 1 (slightly polluting)



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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.
