



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : H 10029
Product Name : HEXAMINE

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 Tele fax No. : 0484 2802483

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : FORMIN; HEXAMETHYLENETETRAMINE; UROTROPIN; METHENAMINE

CAS-No : 100-97-0 Ec-Index No. : 612-101-00-2
Molar Mass : 140.19 EC-No. : 202-905-8
Molecular Formula : C₆H₁₂N₄

3. HAZARDS INDEX : Highly flammable. May cause sensitization by inhalation & skin contact.

4. FIRST AID MEASURES : After inhalation : Fresh air. If necessary, apply mouth-to-mouth resuscitation or mechanical ventilation.

After skin contact : Wash off with plenty of water.

Remove contaminated clothing.

After eye contact : rinse out with plenty of water with the eyelid held wide open. Summon eye specialist if necessary.

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



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5. FIRE-FIGHTING MEASURES : Suitable extinguishing media : foam, water, CO₂
Special risks : Combustible. Formation of hazardous combustion gases
or vapours possible in event of fire. Formation of explosible mixtures
possible with air.

The followin may develop in event of fire :

Nitrous gases, hydrogen cyanide, ammonia.

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

Other information : Prevent fire-fighting water from entering surface
water or groundwater.

6. ACCIDENTAL RELEASE MEASURES : Person-related precautionary measures : Avoid generation
of dusts, do

not inhale dusts. Avoid substance contact.

Procedures for cleaning/absorption : Take up dry.

Forward for disposal. Clean up affected area.

7. HANDLING AND STORAGE : Handling - Take measures to prevent electrostatic charging.
Storage- Tightly closed. Dry. Keep away from sources
of ignition and heat. At +15° C to +25° C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection : Required when dusts are generated.

Eye Protection : Required

Hand Protection : Required



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

Industrial hygiene : Change contaminated clothing. Application skin-protective barrier cream recommended. Wash hands after working with substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Solid
Colour	:	White
Odour	:	Amine-like
pH value at 100g/l H ₂ O(20° C)	:	7.0 - 9.0
Melting temperature	:	Not available
Boiling temperature	:	Not available
Sublimation point	:	> 263° C
Ignition temperature	:	Not available
Flash Point	:	Not available
Explosion limit lower	:	Not available
upper	:	Not available
Relative vapour density	:	Not available
Density (20° C)	:	1.33 g/cm ³
Bulk density	:	~ 600 kg/m ³
Solubility in Water (20° C)	:	100 gm/lt.
Ethanol (20° C)	:	Soluble
Chloroform (20° C)	:	Soluble
Thermal decomposition	:	> 290° C



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10. STABILITY AND REACTIVITY

Conditions to be avoided : Strong heating.

Substances to be avoided : strong oxidizing agents, peroxi compounds,
halogenated hydrocarbons (risk of explosion !).

Hazardous decomposition products : In the event of fire : formaldehyde,
ammonia, nitrous gases, hydrogen cyanide.

Further information : May readily catch fire after brief contact with a
source of ignition.

11. TOXICOLOGICAL INFORMATION

Acute toxicity :

Quantitative data on the toxicity of this product are not available

Further toxicological information :

After inhalation: Irritations of the mucous membranes, coughing, and
dyspnoea. Risk of sensitization.

After skin contact : Irritant effect. Risk of sensitization.

After eye contact : Irritant effect.

After swallowing of large amounts : gastrointestinal complaints, nausea,
vomiting, pain. Damage of kidneys.

12. ECOLOGICAL INFORMATION : Ecotoxic effects : Biological effects :

Fish toxicity : fish EC₅ : 5 gm/lit.

Daphnia toxicity : Daphnia EC₅ : 10 gm/lit./48 hrs.

When used property, no impairments in the function of
waste-water-treatment plants are to be expected.

Further ecologic data : Adverse ecological effects cannot be excluded
in the event of improper handling or disposal.



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13. DISPOSAL METHOD

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 house-hold waste or recycled.

There are no uniform EC Regulations for the disposal of chemical or residues. Chemical residues generally count as special waste. Approved waste disposal companies which will advise you on how to dispose of special waste.

14. TRANSPORT INFORMATION

Transport over land

ADR/RID and GGVS/GGVE : GGVS/GGVE class : 4.1 Number and letter : 6c
ADR/RID class : 4.1 Number and letter : 6c
Name of material : HEXAMINE

Sea Transport IMDG : IMDG class : 4.1 UN No. : 1328 Packing group : III
Ems : 4.1 - 06 MFAG : 320
Correct Technical Name : HEXAMINE

Air Transport ICAO-TI
and IATA-DGR : ICAO/IATA class : 4.1 UN No. : 1328
Packaging group : III
Correct Technical Name : HEXAMINE

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : Xn Harmful
F Highly flammable.



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R-phrases : 11-42/43 Highly flammable. May cause sensitization by inhalation and skin contact.

S-phrases : 16-22-24-37 Keep away from sources of ignition-No smoking.
Do not breath dust. Avoid contact with skin.
Wear suitable gloves.

EC.No. : 202-905-8 EC label

Water pollution class : 1 (slightly polluting substance) (own classification)

16. OTHER INFORMATION

Reason for alteration

Change in product name.

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.
