



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : Z20317
Product Name : **ZINC BROMIDE**
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

2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS-No : 7699-45-8 Molar mass : 225.19
EC –No. : 231-718-4 Molecular formula : Br₂Zn

3. HAZARDS IDENTIFICATION

Causes burns

4. FIRST AID MEASURES

After inhalation : Fresh air. Summon doctor
After skin contact : wash off plenty of water. Dab with polyethylene glycol 400.
Remove contaminated clothing.
After eye contact : Rinse out with water with the eyelid held wide open.
Summon eye specialist.
After swallowing : Drink plenty of water. Induce vomiting. Summon doctor. Do not attempt to neutralize.

5. FIRE – FIGHTING MEASURES

Suitable extinguishing media : In adaption to materials stored in the immediate neighbourhood.
Special risks : Development of hazardous combustion gases or vapours in the event of fire. The following may develop in the event of fire:
hydrogen bromide.
Special protective equipment for fire fighting: Do not stay in dangerous zone without self-contained breathing apparatus.
Other information : Non combustible.

Catalogue No. : Z20317
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Accidental release Measures

Person related precautionary measures : Avoid generation of dusts, do not inhale dusts,
Avoid substance contact. Ensure supply of fresh air.
Do not allow to enter sewerage system.

Procedures for cleaning/absorption : Take up dry. Forward for disposal.
Clean up affected area. Avoid generation of dusts.

6. HANDLING AND STORAGE

Handling : No further requirements.
Storage : Tightly closed and dry. Storage temperature : At +15°C to +25°C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Personal protective equipment**

Respiratory protection : required when dust are generated.

Eye protection : required

Hand protection : required

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.

Industrial hygiene : Change contaminated clothing. Apply skin protective barrier cream. Wash hands and face after working with substance.
Under no circumstances eat or drink at work place. Work underhood. Do not inhale substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : crystals
Colour : white
Odour : almost odourless
PH value at g/l H₂O (20°C) : 4 (saturated solution)
Melting temperature : 394 °C
Boiling temperature : 650 °C
Ignition temperature : Not available

Flash point : Not available

Catalogue No. : **Z20317**

Product Name : **ZINC BROMIDE**

Explosion limits Lower : Not available

Upper : Not available

Relative vapour density : Not available

Density : Not available

Solubility in water(25°C) : 820 g/l

ethanol (20°C) : soluble

ether (20°C) : soluble.

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 : Extremely hygroscopic. Sensitive to moisture.

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.

After skin and eye contact : burns.

After swallowing : burns in mouth, throat, oesophagus and gastrointestinal tract.

The following applies to Zinc compounds in General : only slightly absorbable via. The gastrointestinal tract. Adstringent effect on mucous membranes. Metal fumes fever after inhalation of large quantities.

Further data handled : Further hazardous properties cannot be excluded. The product

with the care usual when dealing with chemicals.

12. ECOLOGICAL INFORMATION:

Ecotoxic effects : Quantitative data on the ecological effects are not available. The following applies to zinc and its compounds in general: Inorganic zinc salts have a bactericidal effect. From > 10 mg Zn/l on, bacteriological Self purification of water is inhibited or suppressed. Toxic for water organisms. Lethal for fish from 0.1 mg/l in soft water. Fish toxicity : LC₅₀ (L.idus) 21 mg/l (ZnCl₂) ; zinc ions : toxic to Daphnia magna from 0.3 mg/l. Contamination of ground water involves risks for drinking water catchment.

Catalogue No. : **Z20317**
Product Name : **ZINC BROMIDE**

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

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.

14. TRANSPORT INFORMATION

Transport over land ADR/RID and GGVS/GGVE

GGVS/GGVE class : 9 Number and letter :12c
ADR/RID class : 9 Number and letter :12c

River transport ADN/ADNR : Not examined.

Sea transport IMDG

IMDG class : 9 UN No.3077 Packaging group : III
Ems : ----- MFAG : 4.2

Correct technical name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S. (ZINC BROMIDE)-MARINE POLLUTANT.

Air transport ICAQ-TI and IATA-DGR

ICAQ/IATA class : 9 UN/ID No. : 3077 Packaging group : III

Correct technical name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S. (ZINC BROMIDE)

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : C Corrosive

R-phrases : 34 Causes burns.



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S-phrases : 7/8-26-36/37/39-45 Keep container tightly closed and dry.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear Suitable protective clothing, gloves and eye/face protection. In case of accidents or if you feel unwell seek medical advice immediately (Show the label where possible.)

Water pollution class : 1 (slightly polluting substance)

16. OTHER INFORMATION

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.
