



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : S 12517
Product Name : SODIUM AZIDE

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

CAS-No : 26628-22-8 Ec-No. : 247-852-1
Molar Mass : ----- EC-index : 011-004-00-7
Molecular formula : N_3Na

3. HAZARDS INDEX

Very toxic if swallowed. Contact with acids liberates very toxic gas.

4. FIRST AID MEASURES

After inhalation : Fresh air. If necessary, apply mouth-to-mouth resuscitation
or mechanical ventilation Summon doctor.

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.

After swallowing : If victim is still conscious, make him drink plenty of water,
induce vomiting, administer activated charcoal(20-40 g in 10% slurry).
Immediately summon doctor.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Metal fire powder. Cover with dry sand or cement.

Extinguishing media not to be used : Water, foam.

Special risks : Combustible. Danger of dust explosion. Keep workplace dry.
Do not allow product to come into contact with water. Development of hazardous
combustion gases or vapours possible in the event of fire.

The following may develop in event of fire : Nitrous gases

6. ACCIDENTAL RELEASE MEASURES

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

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

Environmental-protection measures : Do not allow to enter sewerage system.



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7. HANDLING AND STORAGE

Handling - No further requirements.
Storage - Tightly closed. Dry. At+15° C to +25° C.
Storage : Tightly closed. Dry. In a well-ventilated place.
At+15° C to +25° C. Accessible only for authorized persons.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Specific control parameter
MAK Germany(max.workplace conc.) Sodium Azide: 0.2 mg/m³
Personal protective equipment :
Respiratory protection : Required when dusts are generated.
Eye Protection : Required
Hand Protection : Required

Industrial hygiene : Immediately change contaminated clothing. Apply skin-protective barrier cream. Wash hands and face after working with substance. Under no circumstances eat or drink at workplace. Work under hood. Do not inhale substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Solid
Colour	:	White
Odour	:	Odourless
pH value	:	Not available
Melting temperature	:	275° C (decomposition)
Boiling temperature	:	300° C (rigorous decomposition)
Ignition temperature	:	Not available
Flash Point	:	Not available
Explosion limit lower	:	Not available
upper	:	Not available
Relative vapour density	:	Not available
Density (20° C)	:	1.85 g/cm ³
Solubility in Water(17° C)	:	420 g/l
Thermal decomposition	:	>275° C 300° C

10. STABILITY AND REACTIVITY

Conditions to be avoided : Strong heating.
Substances to be avoided : acids, heavy metals metallic salts(risk of explosion).
Hazardous decomposition products : In the event of fire : nitrous gases
Further information : highly reactive; Drop hammer test : Negative.
Ignition test negative : Explosive decomposition

11. TOXICOLOGICAL INFORMATION

Acute toxicity : LD₅₀ (oral, rat):27 mg/kg; TDLo(oral, human) : 0.71 mg/kg;
LD₅₀ (dermal, rabbit): 20mg/kg ;
The literature data available to us do not conform with the prescribed by the EC.
The EC has dossiers which have not been published.



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Subacute to chronic toxicity : Not treatogenic effect in animal experiments.

Further toxicological information :

After inhalation of dusts/aerosols : Severe irritations of: mucous membranes,
respiratory tract.

Possible damages : Pulmonary oedema. Latency time until onset of action.

After skin contact : Severe irritations.

After eye contact : Severe irritations

After swallowing : irritations of mucous membranes in the mouth, pharynx,
oesophagus and gastrointestinal tract.

Systemic effects : CNS disorders, cardiovascular failure, tachycardia, drop in
blood pressure, coughing, dyspnoea, spasms, headache, dizziness, nausea,
vomiting, collapse, unconsciousness.

Further data : This substance should be handled with particular care.

12. ECOLOGICAL INFORMATION

Ecotoxic effects : Fish toxicity : L.macrochirus LC₅₀ : 0.7 mg/L/96h

Daphnia toxicity : Daphnia pulex EC₅₀ : 4.2mg/L/96h

Algal toxicity : mixed culture of great algae IC₅₀ : 272 mg/L
product is handled and used with due care and attention.

Bacterial toxicity : photo bacterium phosphoreum EC₅₀ :38.5 mg/L

Pseudomonas fluorescens EC₅ : 2.6 mg/L

Biological effects : Highly toxic for aquatic organisms. Forms toxic mixtures in
water, dilution measures not with standing. Herbicidal effect. Nematocidal effect.

Further ecologic data :

The following applies to azides in general: azides are toxic for aquatic organisms.

Biological effects: fish:L.macrochirus toxic as from 1.5 ppm in 24h. approx.

Acute toxicity for lower organisms: 5mg/L; approx.Acute toxicity for cold-blooded
animals:1mg/L (values stated for Sodium azide.)

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

13. DISPOSAL CONSIDERATIONS

There are no uniform EC Regulations for the disposal of contaminated packaging
in the same way as the substance chemicals/residues. Chemical residues generally
count as special contaminated packaging may be treated like house-hold waste.
The disposal of the latter is regulated in the EC member countries through corres-
ponding laws & 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.

Disposal in compliance with official regulations. Handle contaminated chemicals
or residues. Chemical residues generally count 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

GGVS/GGVE class :	6.1	Number and letter: 42b	
Transport over land	ADR/RID class :	6.1	Number and letter: 42b
ADR/RID and GGVS/GGVE	Name of material :	1687	SODIUM AZID



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Sea transport IMDG : IMDG class : 6.1 UN-No : 1687 Packaging group : II
Ems : 6.1-03 MFAG : 220
Correct technical name: SODIUM AZIDE

Air transport : ICAO/IATA class : 6.1 UN/ID-No : 1687 Packaging group : II
ICAO-TI and IATA-DGR Correct technical name : SODIUM AZIDE

15. REGULATORY INFORMATION

Labeling according to EC Directives

Symbol : T+ Very toxic
R -phrases : 28-32 Very toxic if swallowed. Contact with acids liberates very toxic gas.
S-phrases : 28-45 After contact with skin, wash immediately with plenty of water. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

EC-No : 247-852-1 EC label

Water pollution class : 2 (polluting substance)

16. OTHER INFORMATION

Reason for alteration

Change in transport classification.
Addition in the chapter ecology.
Addition in the chapter toxicology.
General update

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.