



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : S 13529
Product Name : SODIUM NITRATE

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: Nitric Acid Sodium salt

CAS-No : 7631-99-4 Ec-Index No. : ----
Molar Mass : 84.99 EC-No. : 231-554-3
Molecular Formula : NaNO_3

3. HAZARDS IDENTIFICATION

Contact with combustible material may cause fire. Harmful if swallowed.
Irritating to eyes.

4. FIRST AID MEASURES

After inhalation : Fresh air.
After skin contact : Wash off with plenty of water. Remove contaminated clothing.
After eye contact : rinse out with plenty of water. Summon eye specialist.
After swallowing : Make victim drink plenty of water, induce vomiting,
summon doctor.

5. FIRE-FIGHTING MEASURES :

Suitable extinguishing media : In adaption to materials stored in the immediate
neighbourhood.

Special risks : Non-combustible. Fire-promoting. Keep away combustible materials.
Development of hazardous combustion gases or vapours possible in the event of fire.
The following may develop in event of fire :Nitrous gases.

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

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

6. ACCIDENTAL RELEASE MEASURES :

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

Procedures for cleaning/absorption : Take up dry. Forward for disposal.
Clean up effected area with water.

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



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7. HANDLING AND STORAGE : Handling : No further requirement.
Storage : Tightly closed. Keep away from sources of ignition and heat. Away from combustible substances
Storage temperature : No restrictions.

8. EXPOSURE CONTROL/ PERSONAL PROTECTION

Personal protective equipments :
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 : Immediately change contaminated clothing. Apply skin-protective barrier cream recommended. Wash hands and face after working with substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Solid
Colour	:	White
Odour	:	Odourless
pH value at 50gm/lit. H ₂ O (20° C)	:	5.5 - 7.5
Melting temperature	:	309° C
Boiling temperature	:	Not available
Ignition temperature	:	Not available
Flash Point	:	Not available
Explosion limit lower	:	Not available
upper	:	Not available
Relative vapour density	:	Not available
Density (20° C)	:	2.26 gm/cm ³
Solubility in Water (20° C)	:	880 gm/lit.
Thermal decomposition	:	>320° C

10. STABILITY AND REACTIVITY

Conditions to be avoided : No information available
Substances to be avoided : Combustible substances, metals in powder form, cyanides(heat), carbon, oxidizable substances, performic acid, sulphur, alkali metals, acetic acid anhydride, polyvinyl chloride, sodium phosphite, sodium thiosulphate, aluminium oxide, boron phosphide.
Hazardous decomposition products : In the event of fire : Nitrous gases

11. TOXICOLOGICAL INFORMATION

Acute toxicity : LD₅₀ (oral, rat) : 1267 mg/kg



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Further toxicological information :

After eye contact : Irritant effect
After swallowing : mucosal irritations, nausea; diarrhoea, vomiting.

After absorption of large quantities : Methamoglobin- inaemia with headache, cardiac arrhythmia, drop in blood pressure, dyspnoea, and spasms, key symptom : cyanosis (blue colouration of the blood).

Further data : Further hazardous properties cannot be excluded.

12. ECOLOGICAL INFORMATION :

Ecotoxic effects : Biological effects : *S.gairdnerii* EC : 2500 mg/Lt.; *C.carpio*

EC₅ : 3100 mg/Lt.; microorganisms LC₅ : 700 mg/Lt.; cold blooded animals LC₅₀ : 500 mg/Lt.; Hazard for drinking water supplies. Toxic effect on fish. Further ecologic data : Do not allow to enter waters, waste water, or soil!. Depending on the concentration, phosphorous and/or nitrogen compounds may contribute to the eutrophication of drinking - water supplies.

13. DISPOSAL METHOD :

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/approved waste disposal companies which will advise you on how to dispose of special waste.

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 :

GGVS/GGVE class : 5.1 Number and letter : 22c
Transport over land ADR/RID class : 5.1 Number and letter : 22c
ADR/RID & GGVS/GGVE : Name of material : SODIUM NITRATE

Sea Transport IMDG : IMDG class : 5.1 UN No. : 1498 Packing group : III
Ems : 5.1-06 MFAG : 235
Correct Technical Name : SODIUM NITRATE

Air Transport ICAO-TI and IATA-DGR : ICAO/IATA class : 5.1 UN No. : 1498 Packaging group : III
Correct Technical Name : SODIUM NITRATE

15. REGULATORY INFORMATION :

Labeling according to EC Directives

Symbol : O Oxidizing
Xn Harmful

R-phrases : 8-33-36 Contact with combustible material may cause fire. Harmful if swallowed. Irritating to eyes.

S-phrases : 22-24-41 Do not breathe dust. Avoid contact with skin. In case of fire and/or explosion do not breathe fumes.



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Water pollution class : 1 (slightly polluting substance)

16. OTHER INFORMATION

Reason for alteration

- Change in labelling.
- Change in supplement to physical/chemical parameters.
- Change in storage temperature.
- 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.

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