



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : N 12025
Product Name : NICKEL 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

EC –Index-No. : ----- Molar mass : 290.81
CAS-No. : 13478-00-7 EC-No. : 236-068-5
Molecular formula : $N_2NiO_6 \cdot 6 H_2O$

3. HAZARDS IDENTIFICATION : Contact with combustible material may cause fire. Harmful if swallowed .
May cause sensitisation by skin contact.

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 the eyelid held
wide open. Summon eye specialist.
After inhalation : Fresh air.
After swallowing : Make the 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.



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Special risks : Fire-promoting, keep away from combustible materials. Development of hazardous combustion gases/vapours possible in the event of fire. The following may develop in event of fire : nitrous gases.

6. ACCIDENTAL RELEASE MEASURES: Person-related precautionary measures : Avoid inhalation of dusts.

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

7. HANDLING AND STORAGE : Handling : No further requirements.

Storage : Tightly closed . Dry. Away from combustible substances.
Accessible only for authorized persons. At + 15°C to +25°C.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Personal protective equipment :

Respiratory protection : Required when dusts are generated.
Eye protection : Required
Hand protection : Required

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

9. PHYSICAL & CHEMICAL PROPERTIES

Form : Solid
Colour : Green
Odour : of nitric acid
pH value at 50 g/l H₂O (20°C) : Near 5
Melting temperature : 56.7°C



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Boiling temperature : Not available
Ignition temperature : Not available
Flash point : Not available
Explosion limits lower : Not available
Upper : Not available
Relative vapour density : Not available
Density : Not available
Bulk density : Near 800 kg/m³
Solubility in water(0°C) : 2380 g/l

10. STABILITY & REACTIVITY : Conditions to be avoided : No information available.
Substances to be avoided: Reducing agents, combustible substances.
Hazardous decomposition :products : nitrous gases.

11. TOXICOLOGICAL INFORMATION: Acute toxicity: LD₅₀ (oral, rat) : 1620 mg/kg;

Further toxicological information :

The following applies to nickel compounds in general: nickel has an ad stringent effect on mucous membranes. Sensitization with allergic manifestations is possible in predisposed persons. In some cases nickel dermatitis may manifest itself. Depending on the water-solubility, nickel & its compounds display a more or less distinct carcinogenicity , with the readily soluble nickel compounds obviously entailing the lesser risk.

Further data: Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing .

12. ECOLOGICAL INFORMATION

Ecotoxic effects : The following applies to nickel salts in general : biological effects :dissolved Ni toxic for aquatic organisms. Fish: L;idus LC₅₀: 570 mg/l ; lethal concentration for fish 1 mg/l in soft water , in hard water P. promelas LD₅₀ 27 mg/l ; bacteria: Ps.putida toxic from 0.0025 mg/l up ; algae : sc.



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quadricauda toxic from 1.3 mg/l up ; M.aeruginosa toxic from 0.005 mg/l up ;
protozoa : E. sulcatum toxic from 0.14 mg/l up ; U.paduczi toxic 0.042 mg/l up ;
arthropods: D.magna LC50 : 11 mg/l (all values referring to dissolved Ni).

The following applies to nitrates in general: may contribute to the
Eutrophication of water supplies . Hazard for drinking water . Fish :
LC₅₀ > 500 mg/l.

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 & 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 : 22 c
Transport over land ADR/RID class : 5.1 Number and letter : 22 c
ADR/RID & GGVS/GGVE Name of material : 2725 NICKEL NITRAT

Sea transport IMDG : IMDG class : 5.1 UN-No. : 2725 Packaging group: 111
EMS : 5.1 -06 MFAG : 4.2
Correct technical name : NICKEL NITRATE

Air transport : ICAO/IATA class : 5.1 UN/ID-No. : 2725 Packaging group : 111
ICAO-TI & IATA-DGR Correct technical name : NICKEL NITRATE



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15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : O
Xn Harmful

R-phrases : 8-22-43 Contact with combustible material may cause fire. Harmful if swallowed. May cause sensitisation by skin contact.

S-phrases : 24-37 Avoid contact with skin. Wear suitable gloves.

Water pollution class : 2 (polluting substance)

16. OTHER INFORMATION

Reason for alteration:

Change in labelling.

General update.

The information contained here in is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.
