



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : P 13129
Product Name : POTASSIUM 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 Potassium Salt

CAS-No : 7757-79-1 EC-Index No. : ----
Molar Mass : ---- EC-No. : 231-818-8
Molecular Formula : KNO_3

3. HAZARDS IDENTIFICATION

Contact with combustible material may cause fire.

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 with the eyelid held wide open. Summon eye specialist.
After swallowing : Make victim drink plenty of water, induce vomiting, summon doctor.

5. FIRE-FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

Person-related precautionary measures :
Avoid generation of dusts. Avoid substance contact.
Environmental-protection measures : Do not allow to enter sewerage system.
Procedure for cleaning /absorption : Take up dry. Forward for disposal.
Clean up affected area.



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7. HANDLING AND STORAGE

Handling : No further requirements.
Storage : Away from combustible substances.
Keep away from sources of ignition and heat.
Storage temperature : No restrictions.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respiratory protection : Required when dusts 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. Wash hands after working with substance. Application of skin-protective barrier cream recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Solid
Colour	:	White
Odour	:	Odourless
pH value at 50 g/l H ₂ O(20° C)	:	5.5 - 8.0
Melting temperature	:	334° C
Boiling temperature	:	Not available
Ignition temperature	:	Not available
Flash Point	:	Not applicable
Explosion limit lower	:	Not available
upper	:	Not available
Relative vapour density	:	Not available
Density(20° C)	:	2.11 gm/cm ³
Bulk Density	:	~800 kg/m ³
Solubility in Water (20° C)	:	~320 gm/lit.
Water (100° C)	:	2470 gm/lit.
Thermal decomposition	:	> 400° C

10. STABILITY AND REACTIVITY

Conditions to be avoided : No information available

Substances to be avoided : Increased reactivity with metals in powder form, combustible substances, organic substances, sulphides, boron(heat), carbon, sulphur/carbon, phosphides, phosphorus, sulphur, magnesium.(risk of explosion!).

Hazardous decomposition products : No information available.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity : LD₅₀ (oral, rat) : 3750 mg/kg
Further toxicological information :
Very low acute toxicity in animal experiments.
After eye contact : Slight irritations.
After swallowing : mucosal irritations, nausea, vomiting, diarrhoea.
After absorption of large quantities : Methamo- globinaemia with headache, cardiac arrhythmia, drop in blood pressure, dysphoea, & spasms, key symptom :
cyanosis (blue colouration of the blood).
Further data : Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing with chemicals.

12. ECOLOGICAL INFORMATION

Ecotoxic effects : Toxic for aquatic organisms.
Plancton EC₅ : 200 mg/lit; Daphnia magna LC₀ : 490 mg/lit./24 h ; Daphnia magna LC₅₀ : 226 mg/lit. /72/h; Daphnia magna LC₀ : 39 mg/lit./96 h.
Depending on the concentration, phosphorous and or nitrogen compounds may contribute to the eutrophication of drinking - water supplies.
Further ecologic data : Do not allow to enter waters, waste water/ soil!.
Hazard for 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 or 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 : POTASSIUM NITRATE

Sea Transport IMDG : IMDG class : 5.1 UN No. : 1486 Packing group : III
Ems : 5.1-06 MFAG : 235
Correct Technical Name : POTASSIUM NITRATE

Air Transport ICAO-TI and IATA-DGR : ICAO/IATA class : 5.1 UN No. : 1486
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15. REGULATORY INFORMATION

Labeling according to EC Directives

Symbol : O Oxidizing
R-phrases : 8 Contact with combustible material may cause fire.
S-phrases : 16-41 Keep away from sources of ignition - No smoking. In case of fire and/or explosion do not breathe fumes.

Water pollution class : 1 (slightly polluting substance)

16. OTHER INFORMATION

Reason for alteration

General update

Change in the chapter on toxicology.

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.