

POTASSIUM NITRATE

PREX-002



O : Oxidizing

Synonyms

Salt peter
Acidic Potassium Nitrate

1. Identification of the substance/mixture and of the company/undertaking

e-mail address of the competent person responsible for the Safety Data Sheet : Reachcustomer@prayon.be

Distributor : PRAYON S.A.
Rue Joseph Wauters, 144
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Fax +32 (0)4 273 96 35
In case of emergency : +32 (0)70 245 245

Main use : Substance used as such, in formulation or in formulation of products for : Horticulture , Fertilizer , Intermediate , Metal treatment , surface treatment industry. , Water treatment. , Detergent. , Antifreeze , Explosive , Heat transfer (solar energy plants) , glass , Frit , Pyrotecnic

Reach number registration : 01-2119488224-35-0029

Trade name : POTASSIUM NITRATE

Identification of the product : Crystalline powder (with 0,1 % coating agent)

Chemical formula : KNO₃

Type of product : Inorganic salt.

2. Hazards identification

Hazards identification (CLP) : **H272 : May intensify fire; oxidizer.**

Risk Phrases : Contact with combustible material may cause fire.

Symptoms relating to use

- Inhalation : May cause irritation to the respiratory tract.
May cause methemoglobinemia.
- Skin contact : Repeated or prolonged skin contact may cause irritation.
- Eye contact : May cause eye irritation.
- Ingestion : Abdominal pain ,
May cause methemoglobinemia. Vomiting , Diarrhea , Nausea

3. Composition/information on ingredients

SUBSTANCE NOT INCLUDED IN THE LIST OF DANGEROUS SUBSTANCES (ANNEX VI OF DIRECTIVE N° 1272/2008)



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3. Composition/information on ingredients (continued)

Other information : Self-classification according to EU criteria.

Substance name	Contents	CAS No	EC No	Annex No	Classification
Potassium nitrate	> 97.5 %	7757-79-1	231-818-8	----	O, R8 ----- Ox. Sol. 3

4. First aid measures

First aid

- **Eye contact** : In case of eye contact, remove contact lenses and immediately rinse with clean water for 20-30 minutes.
Seek medical advice
- **Skin contact** : Wash skin with mild soap and water.
Remove contaminated clothing and shoes.
Wash clothing before re-using.
- **Inhalation** : Remove victim to fresh air.
Assure fresh air breathing.
If breathing is difficult, give oxygen.
Seek medical advice
- **Ingestion** : If swallowed, rinse mouth with water (only if the person is conscious).
Do not induce vomiting.
Seek medical advice

5. Fire-fighting measures

- Flammable class** : Oxidizing. The product reacts with combustible materials and increases combustion even in the absence of air.
- Prevention** : Keep away from combustible material
- Extinguishing media** : All extinguishing media can be used.
- Specific hazards** : On exposure to high temperature (+/- 400 ° C), may decompose, releasing toxic gases. (Nitrate gas)
- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory autonomous equipment.
- Special procedures** : Exercise caution when fighting any chemical fire.
Avoid mechanical shock Avoid : High temperatures.

6. Accidental release measures

- Personal precautions** : Equip cleanup crew with proper protection.
Respiratory protection equipment may be necessary.
Wearing of safety glasses absolutely necessary.
- Environmental precautions** : Prevent entry to sewers and natural waters.
Notify authorities if product enters sewers or public waters.
- After spillage and/or leakage** : Sweep or shovel spills into appropriate container for disposal.
Collect spill when it's dry

7. Handling and storage

- General** : Keep away from combustible material , of all heat sources.
Keep away from sources of ignition.

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7. Handling and storage (continued)

- Precautions in handling and storage** : Remove soiled clothing promptly.
Use good housekeeping practices to avoid rendering dust airborne.
- Storage** : Store in dry, cool, well-ventilated area.
Keep packaging closed when not in use in a closed area.
- Handling** : Avoid dust production.
Avoid all contact with this substance. Avoid : All heat sources.
Keep away from sources of ignition.
Packagings, even those that have been emptied, will retain product residue.
Always obey safety warnings and handle empty packagings as if they were full.

8 Exposure controls/personal protection

- **Hand protection** : Wear protective gloves.
 - **Skin protection** : Wear a closed protective clothing.
 - **Eye protection** : Wear safety glasses with side shields according EN 166.
 - **Respiratory protection** : Approved dust mask (type - P2) should be used if dust are generated when handling this material.
 - **Ingestion** : When using, do not eat, drink or smoke.
 - Industrial hygiene** : Local exhaust is recommended where dust may occur.
Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
- 8 Hour TLV-TWA [mg/m3]** : No data available.

9. Physical and chemical properties

- Physical state at 20 °C** : Crystalline powder
- Colour** : White.
- Odour** : Odourless.
- pH value** : 5.0 - 8.0
- Molecular weight** : 101
- Melting point [°C]** : 333 (decomposition +/- 400 ° C)
- Density (g/cm3)** : 2,1 g/cm3
- Bulk density** : 1.0 - 1.2 g/cm3
- Solubility in water** : Material highly soluble in water.
- Flash point [°C]** : Not applicable

10. Stability and reactivity

- Hazardous reactions** : Under normal circumstances (temperature and pression) the product is stable.
Reacts violently with : Acids , Combustibles , Metal powder. Reducing agents ,
- Hazardous properties** : Contact with combustible material may cause fire.
- Hazardous decomposition products** : On exposure to high temperature (+/- 400 ° C), may decompose, releasing toxic gases.

11. Toxicological information

Rat oral LD50 [mg/kg]

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11. Toxicological information (continued)

Other toxicological information : May cause eye irritation.
By ingested of large quantities, it may cause effects on the blood system resulting in the formation of methaemoglobin. The effects may be delayed.
Seek medical advice

Rat inhalation LC50 [mg/ l/ 4h]

12. Ecological information

Ecological effects information : May cause an eutrophication of natural water.

LC50-96 Hour - fish [mg/l] : No data available.

IC50 72h Algae [mg/l] : No data available.

72 H-CE50 - Daphnia magna [mg/l]

13. Disposal considerations

Disposal : Dispose of this material and its container at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/national regulations.

14. Transport information

Labelling ADR



: O : Oxidizing

UN No. : 1486

ADR/RID/ADN/IMO-IMDG/IATA : Class 5.1

H.I. nr : 50

UN Packing group : III Code tunnel : (E)

- IMDG-Marine pollution : No.

15. Regulatory information

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures.

Hazard Class and Category Code

• **Physical hazards** : Oxidizing solids - Category 3 - Warning (CLP : Ox. Sol. 3)

Labelling

• **Hazard pictograms**



• **Signal words** : Warning

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15. Regulatory information (continued)

- **Hazard statements** : H272 : May intensify fire; oxidizer.
- **Precautionary statements**
 - **Prevention** : P210 : Keep away from heat.
P221 : Take any precaution to avoid mixing with combustibles.

European Communities

EC Labelling

EC Classification

: O; R8

Symbol(s)



: O : Oxidizing

R Phrase(s)

: R8 : Contact with combustible material may cause fire.

S Phrase(s)

: S17 : Keep away from combustible material.
S16 : Keep away from sources of ignition - No smoking.

Classification

: SUBSTANCE NOT INCLUDED IN THE LIST OF DANGEROUS SUBSTANCES (ANNEX VI OF DIRECTIVE N° 1272/2008)

Other

: SUBSTANCE LISTED IN THE ANNEX I OF DIRECTIVE 2003/105/CE AMENDING DIRECTIVE 96/82/CE (CONTROL OF MAJOR - ACCIDENT HAZARDS INVOLVING DANGEROUS SUBSTANCES)

16. Other information

Further information : Revision - See : *

Product information : R8 : Contact with combustible material may cause fire.
H272 : May intensify fire; oxidizer.

The contents and format of this SDS are in accordance with REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

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