



## MATERIAL SAFETY DATA SHEET

### SODIUM POTASSIUM NITRATE

#### Section 1-Identification of the Substance/Preparation/Company

**Product Name** : Sodium Potassium Nitrate  
**Manufacturer** : Cosayach Nitratos S.A & Pantheon FZE  
JAFZA 17/329,  
PO Box: 17899, Jabel Ali,  
Dubai, UAE  
**Emergency contact** : +971 4 881 8215

#### Section 2-Hazards Identification

**Hazard designation**

**Hazard symbols**

0 Oxidizing

**R Phrases**

8 Contact with combustible material may cause fire

#### Section 3-Composition/Information on Ingredients

**Chemical characterization principal ingredients**

Sodium Nitrate (CAS: 7631-99-4) (EINECS: 231-554-3)

Potassium Nitrate (CAS: 7757-79-1) (EINECS: 231-818-8)

**Substance / Product identification**

Formula: Mixture of nitrate salts

Molecular weight: NA

#### Section 4-First Aid Measure

**General information:** By continuous complaints consult a physician. Remove immediately contaminated clothing and shoes and launder thoroughly before reusing.

**Inhalation:** Remove affected person from danger area. Ensure supply of fresh air.

**Ingestion:** Rinse out mouth and give plenty of water to drink. Summon a doctor immediately. Never give anything by mouth to an unconscious person. If individual is drowsy or unconscious place in recovery position (on left side, with head down).



**Skin contact:** In case of contact with skin wash off immediately with plenty of water.

**Eye contact:** Separate eyelids; wash the eyes thoroughly with water (15 min). Eye treatment by an Oculist.

### Section 5-Fire fighting procedure

**Suitable extinguishing media:** Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

**Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:** In the event of fire the following can be released – Nitrous gases (NO<sub>x</sub>), Potassium nitrate, Potassium Peroxide,

**Special protective equipment for firefighting:** Use self-contained breathing apparatus. Do not inhale explosion and/or combustion gases. Wear protective clothing.

**Other information:** The product is not combustible, however it promotes fire. Cool endangered containers with water spray jet.

### Section 6-Accidental Release Measure

**Personal Precautions:** Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Avoid dust formation. Keep away sources of ignition.

**Environmental Precautions:** Do not discharge into the drains/surface waters/ground water.

**Methods of cleaning up/taking up:** Pick up mechanically. Avoid raising dust. Send in suitable containers for recovery or disposal.

### Section 7-Handling and Storage

#### Handling

**Advice on safe handling:** Provide good ventilation of working area (local exhaust ventilation if necessary).

**Advice on protection against fire and explosion:** Keep away from sources of heat and ignition.

#### Storage

**Requirements for storage rooms and vessels:** Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

**Hints on storage assembly:** Keep away from flammable substances. Do not store with combustible materials. Do not store together with reducing agents.



**Further information on storage conditions:** Keep container tightly closed in a cool, well ventilated place.

## Section 8-Exposure control/Personal protection

**Ingredients with occupational exposure limits to be monitored:** None

### Personal protective equipment

**Respiratory protection:** If ventilation is insufficient, use a respiratory protection apparatus. Dust mask.

**Hand protection:** Protective gloves

**Eye protection:** Tightly fitting safety glasses

**Skin Protection:** Clothing as usual in the chemical industry, protective shoes

**General Protective and hygiene measures:** Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale dust. Wash hands before breaks and after work. Hold eye bath available. Hold emergency shower available.

## Section 9-Physical Chemical Properties

|                            |                         |
|----------------------------|-------------------------|
| <b>Appearance</b>          | : Pink/White pills      |
| <b>Odor</b>                | : Odorless              |
| <b>Boiling Point</b>       | : 400 °C                |
| <b>Melting Point</b>       | : 280 °C                |
| <b>Flash Point</b>         | : Not applicable        |
| <b>Density</b>             | : 2.3 g/cm <sup>3</sup> |
| <b>Solubility in water</b> | : Soluble               |
| <b>pH Value</b>            | : 6 - 9                 |

## Section 10-Stability and Reactivity

**Materials to avoid:** Reducing agents, Reactions with combustible substances

**Hazardous decomposition products:** Nitrous oxides (NO<sub>x</sub>), Potassium Nitrite, Potassium Peroxide

## Section 11-Toxicity Information

### Acute toxicity

#### Acute Oral toxicity

LD50 370 mg/Kg

Species Rat



Source RTECS

Experience in practice: Inhalation may lead to irritation of the respiratory tract. The product can cause skin and eye irritation.

## Section 12-Ecological Information

General information/ecology: Do not discharge into the drains or waters and do not store on public depositories.

## Section 13-Disposal Considerations

**Product:** Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

**Uncleaned Packaging:** Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

## Section 14-Transport Information

### Land transport ADR/RID

|                |  |
|----------------|--|
| Class          | 5.1, 22 c                                    |
| Hazard no.     | 5  |
| UN number      | 1499   |
| Technical name | Sodium Nitrate and Potassium Nitrate mixture |

### Marine transport IMDG/GGVSee

|                      |  |
|----------------------|--|
| Class                | 5.1  |
| Packaging group      | III  |
| UN number            | 1499   |
| Proper shipping name | Sodium Nitrate and Potassium Nitrate mixture |
| EmS                  | 5.1-06                                       |
| MFAG                 | 235  |

### Air transport ICAO/IATA

|                      |  |
|----------------------|--|
| Class                | 5.1  |
| Packaging group      | III  |
| UN number            | 1499   |
| Proper Shipping name | Sodium Nitrate and Potassium Nitrate Mixture |



## Section 15-Regulatory Information

**Labelling in accordance with EC directives:** The product is classified and labeled in accordance with EC Directive 67/548/EC

**EC No:** NA

Hazardous Symbols

0 Oxidizing

## Section 16-Additional Information

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