

MATERIAL SAFETY DATA SHEET

DSCL (Pictograms)	DSCL (Classification)	Protective Clothing
 	R8- Contact with combustible material may cause fire. R20/22- Harmful by inhalation and if swallowed. R36/37- Irritating to eyes and respiratory system.	 

POTASSIUM NITRATE SPRAY GRADE

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

Product name	:	POTASSIUM NITRATE SPRAY GRADE	Supplier	:	NULANDIS (A Division of AECI Ltd) 14 Field Road, Lilianton
			Manufacturer	:	NULANDIS (A Division of AECI Ltd) 14 Field Road, Lilianton
Synonyms	:	Fertilizer.			
Emergency telephone number	:	Griffon Poison information centre: 082 446 8946 Poisons Information Helpline: 0861 555 777 Nulandis: (011) 823 8000 (o/h) Spill Tech: 086 100 0366 (a/h)			

2. Composition / information on ingredients

Substance/Preparation : Preparation

Chemical name*	CAS No.	%	Symbol	R-Phrases
1) Potassium Nitrate	7757-79-1	100	O, Xn	R8, R20/22, R36/37

* Occupational Exposure Limit(s), if available, are listed in section 8

3. Hazards identification

Physical/chemical hazards	:	Contact with combustible material may cause fire.
Human health hazards	:	Harmful by inhalation and if swallowed. Irritating to eyes and respiratory system.

4. First-aid measures

First-Aid measures

Inhalation	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	:	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin Contact	:	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.
Eye Contact	:	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Effects and symptoms

Inhalation	:	Harmful in case of inhalation (lung irritant). Non-sensitizer for lungs. Over-exposure by inhalation may cause respiratory irritation.
Ingestion	:	Harmful in case of ingestion.
Skin Contact	:	Irritant
Eye Contact	:	Harmful in case of eye contact (irritant). Slightly hazardous in case of eye contact (corrosive).
Aggravating conditions	:	Repeated or prolonged exposure is not known to aggravate medical condition.

5. Fire-fighting measures

Extinguishing Media

- Suitable** : Not applicable.
- Hazardous thermal (de)composition products** : These products are nitrogen oxides (NO, NO₂...). Some metallic oxides.
- Special fire-fighting procedures** : Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

- Personal precautions** : Splash goggles. Gloves.
- Environmental Precautions and Clean-up Methods** : Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

7. Handling and storage

- Handling** : Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. Do not ingest. Do not breathe dust. Avoid contact with eyes. Never add water to this product. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as combustible materials, organic materials.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalies, reducing agents and combustibles. See NFPA 43A, Code for the Storage of Liquid and Solid Oxidizers.
- Packaging materials**
- Recommended use** : Use original container.

8. Exposure controls/personal protection

- Engineering measures** : Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
- Hygiene measures** : Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.
- Occupational Exposure Limits** : n/a

<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
1) Potassium Nitrate	ACGIH (United States, 1998). TWA: 5 mg/m ³ Form: Dust

Personal protective equipment

- Respiratory system** : Dust respirator. Be sure to use an approved/certified respirator or equivalent.
- Skin and body** : Lab coat.
- Hands** : Gloves.
- Eyes** : Splash goggles.

9. Physical and chemical properties

- Physical state** : Solid.
- Color** : Light.
- Odor** : None.
- Melting Point** : 344°C (651.2°F) based on data for: Potassium Nitrate.
- Density** : Not available.
- Solubility** : Soluble in hot water.
Partially soluble in cold water.
Insoluble in methanol, diethyl ether, n-octanol, acetone.
- Octanol/water partition coefficient** : The product is more soluble in water.
- pH** : Neutral.
- Flash point** : Not applicable.

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Explosive properties : Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. Highly explosive in presence of combustible materials, of organic materials. Explosive in presence of reducing materials.

10. Stability and reactivity

Stability : The product is stable.
Materials to avoid : Reactive with combustible materials, organic materials. Slightly reactive to reactive with reducing agents.
Hazardous Decomposition Products : These products are nitrogen oxides (NO, NO2...). Some metallic oxides.

11. Toxicological information

Local effects

Skin irritation : Slightly hazardous in case of skin contact (irritant). Non-corrosive for skin.
Sensitization : Non-sensitizer for skin. Non-sensitizer for lungs.
Acute toxicity : Acute oral toxicity (LD50): 3750 mg/kg (Rat) (Calculated value for the mixture).
Chronic toxicity : Repeated or prolonged exposure is not known to aggravate medical condition.

12. Ecological information

Ecotoxicity : Not available.

13. Disposal considerations

Methods of disposal; Waste of residues; Contaminated packaging : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

International transport regulations

UN number : 1486

Land - Road/Railway

Packing Group :

Sea

Packing Group :

Air

Inland waterways

Proper shipping name : (Potassium Nitrate)

ADNR Classification : 5.1

UN/NA (Europe) ADNR : 1486

Packing Group :

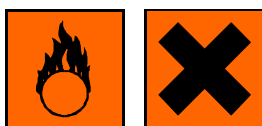
ADNR label :



15. Regulatory information

EU Regulations

Hazard symbol(s) :



Classification : Oxidizing, Harmful

Risk Phrases : R8- Contact with combustible material may cause fire.
R20/22- Harmful by inhalation and if swallowed.
R36/37- Irritating to eyes and respiratory system.

POTASSIUM NITRATE SPRAY GRADE

Safety Phrases : S2- Keep out of the reach of children.
S46- If swallowed, seek medical advice immediately and show this container or label.

Contains : - Potassium Nitrate

16. Other information

HISTORY

Date of printing :
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Prepared by :

Notice to Reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

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