

GRUPO NITROMEX S.A. DE C.V.
POTASSIUM NITRATE

Safety Data Sheet

Potassium Nitrate according to Regulation (EC) No. 1907/2006

Issued: 1. December 2010

Revised: 3. May 2022

SECCIÓN 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Potassium Nitrate EC-No. 231-818-8

CAS-No. 7757-79-1

Relevant identified uses of the substance or mixture and uses advised against

Manufacture of fertilizers and nitrogen compounds Raw material for industry

Details of the supplier of the safety data sheet

Heliopotasse

25 place de la réunion

68100 Mulhouse – France

Emergency telephone number

52 8089 46/56

56 3603 8693/94

SECCIÓN 2: HAZARDS IDENTIFICATION

Classification of the substance

REGULATION (EC) No 1272/2008

Ox. Sol. 3; H272

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

O; R 8

For the full text of the R-phrases mentioned in this Section, see Section 16.

Label elements REGULATION (EC) No 1272/2008

Product identifier

Potassium Nitrate EC-No.231-818-8



Signal word: **Warning**

Hazard statements

H272: May intensify fire; oxidiser.



Precautionary statements

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P220: Keep/Store away from clothing/ combustible materials.

P221: Take any precaution to avoid mixing with combustibles.

P280: Wear protective gloves/ eye protection/ face protection. P370 +

P378: In case of fire: Use water spray for extinction.

SECCIÓN 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Classification REGULATION (EC) No 1272/2008

%w/w	Compound CAS-No.	EC-No.	Classification
99-100	Potassium nitrate 7757-79-1	231-818-8	Ox. Sol. 3; H272

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECCIÓN 4: FIRST AID MEASURES

Description of first aid measures

General advice	When symptoms persist or in all cases of doubt seek medical advice.
Inhalation	If dust is inhaled, move to fresh air. In case of significant inhalation of dust: seek medical attention if uncomfortable.
Skin contact	Wash with soap and water. Remove contaminated clothing. Immediately flush eyes with water. If irritation persists, seek medical attention.
Eye contact	If easy to do, remove contact lens, if worn. Rinse with plenty of water.
Ingestion	In case of substantial ingestion: Seek medical attention. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Form of exposure: Inhalation, eye and skin contact, ingestion.

Inhalation of excessive amounts of dust may cause irritation of the respiratory system; symptoms may include coughing and difficulty in breathing.

May irritate skin.

May cause irritation of eyes.

Low toxicity. Ingestion of large quantities may cause gastrointestinal disorders.



SECCIÓN 5: FIRE-FIGHTING MEASURES

Not combustible. Oxidising

Extinguishing media

Suitable extinguishing media:

Product is compatible with standard fire-fighting agents. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Extinguishing media - large fires Flush with plenty of water. Extinguishing media - small fires Water spray

Special hazards arising from the substance or mixture

Releases nitrogen oxide fumes at temperatures above 400oC/750oF.

Advice for firefighters

Fire-fighters should wear full protective clothing and self-contained breathing apparatus.

SECCIÓN 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dust.

Environmental precautions

Do not wash spills into water ways or public treatment systems.

Methods and materials for containment and cleaning up

Collect by vacuuming or sweeping (minimizing dust) and place in labelled container for proper reclamation or disposal.

SECCIÓN 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid handling methods creating excessive dust. Use mechanical ventilation when appropriate.

Use good housekeeping and personal hygiene practices. Do not eat, drink or smoke when handling materials.

Conditions for safe storage, including any incompatibilities

Keep in tightly sealed containers. Product may be damaged by water.

Keep in a cool, well ventilated place away from reducing agents. Store in original container.

Do not store near combustible materials.

Specific end uses

Manufacture of fertilizers and nitrogen compounds Raw material for industry



SECCIÓN 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters Exposure Limit Values

Exposure limits may vary. It is recommended that information about locally applicable exposure limits is obtained.

Components	CAS-No.	Revision Date
Potassium nitrate	7757-79-1	

*A = respirable; *C= ceiling limit; *E = inhalable; STEL = Short term exposure limit

DNEL/PNEC

Substance name	Potassium nitrate			
EC-No.	231-818-8	CAS-No. 7757-79-1		
Sector of use	Industrial Use			
Skin contact	DNEL	Repeated dose toxicity	12,5 mg/kg	24 h
Inhalation	DNEL	Repeated dose toxicity	10,9 mg/m ³	24 h
Ingestion	DNEL	Repeated dose toxicity	12,5 mg/kg	24 h
Environment	PNEC	Fresh water	0,45 mg/l	
Environment	PNEC	Marine water	0,045 mg/l	

Exposure controls

Individual protection measures, such as personal protective equipment

Eye protection

Goggles recommended. Contact lenses should not be worn when working with this product.

Skin protection

Gloves recommended.

Hand protection

Safety shoes recommended when handling heavy containers.

Body Protection

Use approved respirator with particle filter type

Respiratory protection

P3(EUstandard)/P100(US-standard)

When exposure may exceed recommended limits.

Other protection

Change work clothing daily. Wash hands thoroughly after handling.



SECCIÓN 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Property	Value
Form	Solid Dry powder
Appearance	Crystals
Colour	White
Odour	Odourless
pH	Not applicable
Initial boiling point and boiling range	Not applicable
Melting point/freezing point	334C/ 633F
Flammability (solid, gas)	Non-flammable
Lower explosion limit / lower flammability limit	Non-explosive
Autoignition temperature	Not applicable
Oxidizing properties	Oxidizing Material
Vapour pressure	2,1
Relative density	Not applicable
Density	312 g/l (10C)
Water solubility	Not applicable
Partition coefficient: noctanol/water	

SECCIÓN 10: STABILITY AND REACTIVITY

Chemical stability: The product is stable under normal handling and storage conditions.

Conditions to avoid: Strong heating.

Incompatible materials: Reducing agents, strong acids and alkalines, organic materials.

Hazardous decomposition products: Decomposes at temperatures above 400°C/750°F under formation of nitrogen oxides.

SECCIÓN 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Likely route of exposure	Inhalation, eye and skin contact, ingestion.
Inhalation	Inhalation of dust may cause irritation of the respiratory system; symptoms may include coughing and difficulty in breathing.
Eye contact	May cause irritation of eyes.
Skin contact	May irritate skin.
Ingestion	Ingestion may cause irritation of the mouth and throat and may cause discomfort.

Substance name: Potassium nitrate CAS-No. 7757-79-1

Acute toxicity	LD50	rat	3.750 mg/kg
Acute toxicity	LD50	rabbit	1.901 mg/kg



SECCIÓN 12: ECOLOGICAL INFORMATION

Constituents classified by EU for environmental hazards: None.

Substance	Potassium Nitrate	Cas-No. 7757-79-1
Toxicity	Toxicity to fish no data available	

SECCIÓN 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

May be reclaimed.

Dispose of waste in accordance with applicable EC, national and local regulations. Heliopotasse takes no responsibility for the classification of used or contaminated material.

SECCIÓN 14: TRANSPORT INFORMATION

UN number	1486		
Proper shipping name IMO/IMDG ADR Tunnel restriction code CFR TDG	Potassium Nitrate Class 5.1 Class 5.1 E Class 5.1 Class 5.1	Packing group III Packing group III Packing group III Packing group III	Not a Marine Pollutant

SECCIÓN 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

This substance is classified as dangerous according to European Union legislation.

Directive 96/82/EC of 9th December 1996

The product belongs to at least one of the categories 1 through 11 mentioned in Annex 1 of the Directive 1996/82/EC concerning the control of major accident hazards.



SECCIÓN 16: OTHER INFORMATION

Additions, Deletions, Revisions

Vertical lines in the left hand margin indicate an amendment from the previous version.

Key or legend to abbreviations and acronyms used in the safety data sheet

DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
O	
Ox. Sol.	Oxidising
Ox. Sol.	Oxidizing solids

Key literature references and sources for data

RTECS (Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, 4676 Columbia Pkwy., Cincinnati, Ohio 45226, USA).

Full text of R-phrases referred to under sections 2 and 3

R 8 Contact with combustible material may cause fire.

Full text of H-Statements referred to under sections 2 and 3.

H272 May intensify fire; oxidiser.

Further information

All components are included in TSCA (USA), DSL (Canada) and EINECS (EC)inventories.

NFPA 704: National Fire Protection Association

Health 2 Fire 0 Reactivity 3

0= minimal hazard, 1=slight hazard, 2=moderate hazard, 3=severe hazard,4=extreme hazard

The above information is believed to be accurate and is based on our present state of knowledge and experience. However, no warranty or representation with respect to such information is intended or given. This information is intended to be used for safety and environmental purposes only and should not be relied upon for any other purposes.

Information contained herein is confidential; it may not be used for any purpose other than for which it has been issued, and may not be used by or disclosed to third parties without written approval of Heliopotasse.