

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	: Substance
Trade name	: Easygro Potassium Nitrate
IUPAC name	: POTASSIUM NITRATE
EC-No.	: 231-818-8
CAS-No.	: 7757-79-1
Product code	: 150011202
Type of product	: Fertilizer
Formula	: KNO ₃
Product group	: Trade product

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

1.2.1. Relevant identified uses

Main use category	: Professional use
Industrial/Professional use spec	: Fertilizer
Use of the substance/mixture	: Fertilizer
Function or use category	: Fertilisers

1.2.2. Uses advised against

Restrictions on use	: Fertilizers
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1.3. Details of the supplier of the safety data sheet

P.O. Box 2
2690 AA
T +31 (0) 174 446 100
SDS@brinkman.nl - www.royalbrinkman.com

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Oxidizing solids Category 3	H272	Expert judgment
Acute toxicity (inhalation:dust,mist) Category 3	H331	On basis of test data

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May intensify fire; oxidizer. Toxic if inhaled.

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)	:	 
		GHS03 GHS06

Signal word (CLP)	: Danger
Hazard statements (CLP)	: H272 - May intensify fire; oxidizer. H331 - Toxic if inhaled.
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220 - Keep away from clothing and other combustible materials.

Easygro Potassium Nitrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

P261 - Avoid breathing dust.
P280 - Wear protective clothing, eye protection, face protection, protective gloves.
P304+P340+P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call doctor.

Labeling according to Directive 67/548/EEC or 1999/45/EC

2.3. Other hazards

Other hazards which do not result in classification : Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name : Potassium Nitrate
CAS-No. : 7757-79-1
EC-No. : 231-818-8

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
POTASSIUM NITRATE	(CAS-No.) 7757-79-1 (EC-No.) 231-818-8 (REACH-no) 01-2119488224-35	100	Ox. Liq. 3, H272 Acute Tox. 3 (Inhalation:dust,mist), H331

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician. Call a doctor.
First-aid measures after skin contact : Wash off with soap and plenty of water. If symptoms persist call a doctor. Wash skin with plenty of water.
First-aid measures after eye contact : Contact lenses should be removed. If irritation persists, consult a doctor. Rinse eyes with water as a precaution.
First-aid measures after ingestion : Give water to drink if victim completely conscious/alert. Rinse mouth with water, do not induce vomiting, call a doctor. Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause respiratory irritation.
Symptoms/effects after skin contact : May cause slight irritation.
Symptoms/effects after eye contact : May cause eye irritation.
Symptoms/effects after ingestion : Ingestion may cause nausea, vomiting and diarrhea.

4.3. Indication of any immediate medical attention and special treatment needed

After inhaling vapors, first symptoms of poisoning may develop hours later, so always consult a doctor. Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : water in large amounts. Water spray. Dry powder. Foam.
Unsuitable extinguishing media : Unsuitable extinguishing media. earth, sand, dry chemical powder or foam.

5.2. Special hazards arising from the substance or mixture

Fire hazard : vapors may cause fire/explosion if source of ignition is present. Self-heating in large quantities; may catch fire. May intensify fire; oxidizer.
Hazardous decomposition products in case of fire : Toxic fumes may be released. Nitrogen oxides.

Easygro Potassium Nitrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

5.3. Advice for firefighters

- Precautionary measures fire : Do not enter fire area without proper protective equipment, including respiratory protection.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
- Other information : Exercise caution when fighting any chemical fire. Avoid high temperatures. Prevent shock/impact.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Provide adequate ventilation to minimize dust and/or vapor concentrations. Equip cleanup crew with proper protection. Wear personal protective equipment. 8.2. Exposure controls/personal protection.

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Prevent liquid from entering sewers, watercourses, underground or low areas. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Mechanically recover the product. Sweep or shovel spills into appropriate container for disposal. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from sources of ignition. Both local exhaust and general room ventilation are usually required. Keep away from heat and direct sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Remove contaminated clothing and shoes. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep container closed when not in use. Keep away from combustible materials. Keep away from naked flames/heat. Keep away from sources of ignition. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
- Incompatible materials : Combustible materials.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Easygro Potassium Nitrate (7757-79-1)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal 20.8 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 36.7 mg/m³

DNEL/DMEL (General population)

Long-term - systemic effects, oral 12.5 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 10.9 mg/m³

Long-term - systemic effects, dermal 12.5 mg/kg bodyweight/day

PNEC (Water)

Easygro Potassium Nitrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

PNEC aqua (freshwater)	0.45 mg/l
PNEC aqua (marine water)	0.045 mg/l
PNEC aqua (intermittent, freshwater)	4.5 mg/l
PNEC (STP)	
PNEC sewage treatment plant	18 mg/l

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Hand protection : Consult supplier for specific recommendations

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)				EN 374-3

Eye protection : Safety glasses

Type	Field of application	Characteristics	Standard
Safety glasses			EN 166

Skin and body protection : Protective clothing (with elasticated cuffs and closed neck)

Respiratory protection : Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material. [In case of inadequate ventilation] wear respiratory protection.

Device	Filter type	Condition	Standard
Self-contained breathing apparatus (SCBA)	Type P2		EN 140, EN 149



Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Crystals.
Color	: white.
Odor	: odorless.
Odor threshold	: No data available
pH	: 5 – 8
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: 3
Melting point	: 333 °C
Freezing point	: Not applicable
Boiling point	: 400 K
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 600 °C
Flammability	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 2.1 g/cm ³
Solubility	: Water: 360 g/l
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.

Easygro Potassium Nitrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Oxidizing properties : oxidizing materials.
Explosion limits : Not applicable

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. May cause or intensify fire; oxidizer.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts violently with : Acids. Reacts with combustible materials. Metallic oxide powders. Reducing agents.

10.4. Conditions to avoid

Contact with combustible material may cause fire. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Combustible materials. Reducing agents. Combustible materials.

10.6. Hazardous decomposition products

On exposure to high temperature, may decompose, releasing toxic gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Inhalation:dust,mist: Toxic if inhaled.

Easygro Potassium Nitrate (7757-79-1)

LD50 oral rat	> 2000 mg/kg OECD (404)
LD50 dermal rat	> 5000 mg/kg OECD (402)
LC50 Inhalation - Rat	527 mg/m ³ OECD (403)

POTASSIUM NITRATE (7757-79-1)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 Inhalation - Rat	> 527 mg/m ³

Skin corrosion/irritation : Not irritating. rabbit ((OECD 404 method))
pH: 5 – 8

Serious eye damage/irritation : Not irritating. rabbit ((OECD 405 method))
pH: 5 – 8

Respiratory or skin sensitization : Did not cause sensitization. mouse ((OECD 429 method))

Germ cell mutagenicity : Mutagenicity tests are negative ((OECD 471 method). (OECD 476 method))

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified ((OECD 422 method)) ((OECD 422 method))

Easygro Potassium Nitrate (7757-79-1)

NOAEL (subacute,oral,animal/male,28 days)	≥ 1500 mg/kg body weight
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Aspiration hazard : Not classified

Easygro Potassium Nitrate (7757-79-1)

Viscosity, kinematic	Not applicable
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Easygro Potassium Nitrate (7757-79-1)

LC50 - Fish [1]	1378 mg/l OECD (203)
EC50 - Crustacea [1]	490 mg/l (48h)
EC50 - Other aquatic organisms [1]	> 1000 mg/l 3 h- actief slib, OECD (209)

Easygro Potassium Nitrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ErC50 algae	> 1700 mg/l (10 d - Benthic diatoms)
NOEC (acute)	180 mg/l Actief Slib (OECD 209)
POTASSIUM NITRATE (7757-79-1)	
LC50 - Fish [1]	1378 mg/l
EC50 - Crustacea [1]	490 mg/l
EC50 - Other aquatic organisms [1]	> 1000 mg/l
EC50 72h - Algae [1]	> 1700 mg/l
NOEC (acute)	180 mg/l

12.2. Persistence and degradability

Easygro Potassium Nitrate (7757-79-1)	
Persistence and degradability	No supplementary information available.

12.3. Bioaccumulative potential

Easygro Potassium Nitrate (7757-79-1)	
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

Easygro Potassium Nitrate (7757-79-1)	
Ecology - soil	No supplementary information available.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects : Undisclosed.

SECTION 13: Disposal considerations






13.1. Waste treatment methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container at hazardous or special waste collection point. Dispose of contents/container in accordance with licensed collector's sorting instructions.

Ecological information : European waste catalogue.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
1486	1486	1486	1486	1486
POTASSIUM NITRATE	POTASSIUM NITRATE	Potassium nitrate	POTASSIUM NITRATE	POTASSIUM NITRATE
UN 1486 POTASSIUM NITRATE, 5.1, III, (E)	UN 1486 POTASSIUM NITRATE, 5.1, III	UN 1486 Potassium nitrate, 5.1, III	UN 1486 POTASSIUM NITRATE, 5.1, III	UN 1486 POTASSIUM NITRATE, 5.1, III
5.1	5.1	5.1	5.1	5.1
				
III	III	III	III	III
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

- Overland transport

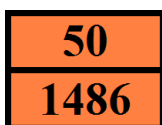
Classification code (ADR) : O2

Easygro Potassium Nitrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1, BK1, BK2, BK3
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAV
Tank special provisions (ADR)	: TU3
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Bulk (ADR)	: VC1, VC2, AP6, AP7
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV24
Hazard identification number (Kemler No.)	: 50
Orange plates	:



Tunnel restriction code (ADR) : E

- Transport by sea

Special provision (IMDG)	: 964, 967
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002, LP02
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1, BK2, BK3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-Q
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW23
Properties and observations (IMDG)	: White crystals or powder. Soluble in water. Mixtures with combustible material are readily ignited and may burn fiercely. Harmful if swallowed.

- Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y546
PCA limited quantity max net quantity (IATA)	: 10kg
PCA packing instructions (IATA)	: 559
PCA max net quantity (IATA)	: 25kg
CAO packing instructions (IATA)	: 563
CAO max net quantity (IATA)	: 100kg
Special provision (IATA)	: A803
ERG code (IATA)	: 5L

- Inland waterway transport

Classification code (ADN)	: O2
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: B
Equipment required (ADN)	: PP
Provisions prior to loading (ADN)	: LO04
Provisions for carriage in bulk (ADN)	: CO02

Easygro Potassium Nitrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Number of blue cones/lights (ADN) : 0
Additional requirements/Remarks (ADN) : CO02 and LO04 apply only when this substance is carried in bulk or without packaging

- Rail transport

Classification code (RID) : O2
Limited quantities (RID) : 5kg
Excepted quantities (RID) : E1
Packing instructions (RID) : P002, IBC08, LP02, R001
Special packing provisions (RID) : B3
Mixed packing provisions (RID) : MP10
Portable tank and bulk container instructions (RID) : T1, BK1, BK2, BK3
Portable tank and bulk container special provisions (RID) : TP33
Tank codes for RID tanks (RID) : SGAV
Special provisions for RID tanks (RID) : TU3
Transport category (RID) : 3
Special provisions for carriage – Bulk (RID) : VC1, VC2, AP6, AP7
Special provisions for carriage - Loading, unloading and handling (RID) : CW24
Colis express (express parcels) (RID) : CE11
Hazard identification number (RID) : 50

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

IBC code : Not applicable.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Easygro Potassium Nitrate is not on the REACH Candidate List

Easygro Potassium Nitrate is not on the REACH Annex XIV List

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

	Supersedes version of	Modified
	Issue date	Modified
5.2	Fire hazard	Modified
6.1	Emergency procedures	Modified

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
vPvB	Very Persistent and Very Bioaccumulative
SDS	Safety Data Sheet
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

Easygro Potassium Nitrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

PNEC	Predicted No-Effect Concentration
PBT	Persistent Bioaccumulative Toxic
OECD	Organisation for Economic Co-operation and Development
NOEC	No-Observed Effect Concentration
NOAEL	No-Observed Adverse Effect Level
STP	Sewage treatment plant
NOAEC	No-Observed Adverse Effect Concentration
LD50	Median lethal dose
LC50	Median lethal concentration
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
LOAEL	Lowest Observed Adverse Effect Level
EC50	Median effective concentration
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
EC-No.	European Community number
EN	European Standard
IARC	International Agency for Research on Cancer
OEL	Occupational Exposure Limit
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
ED	Endocrine disrupting properties

Full text of H- and EUH-phrases:

Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
H272	May intensify fire; oxidizer.
H331	Toxic if inhaled.
Ox. Liq. 3	Oxidizing liquids Category 3
Ox. Sol. 3	Oxidizing solids Category 3

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.