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Supersedes:11/11/2015

Version: 1.1

<b>SECTION 1: Identification of the</b>	e substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Trade name	: Potanit
IUPAC name	: Potassium nitrate
EC no	: 231-818-8
CAS No	: 7757-79-1
REACH registration No	: 01-2119488224-35
Type of product	: Pure substance
Formula	: KNO3
Synonyms	: MULTI K GG / nitrate of potash / nitrate of potassium / nitrate volumetril standard / nitre / nitric acid potassium salt / Potassium nitrate / saltpeter / saltpetre / vicknite
BIG no	: 10150
1.2.Relevant identified uses of the1.2.1.Relevant identified uses	e substance or mixture and uses advised against
Main use category	: Industrial use
Industrial/Professional use spec	: Fertilizer
Use of the substance/mixture	: Agriculture.
Function or use category	: Fertilisers
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the s	Falety uata Sheet
Supplier Anorel NV Lintsesteenweg 632 2540 Hove T +3234880233	

#### anorel@anorel.net - www.anorel.net 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Greece	Poisons Information Centre Children's Hospital "Aglaia. Kyriakou"	11527 Athens	+30 10 779 3777	
Iceland	Eitrunarmiðstöð Landspítali	Fossvogi 108 Reykjavik	+354 543 22 22	
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166 (public, 8am - 10pm, 7/7)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096 Haifa	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0844 892 0111	UK only, Monday to Friday, 08.00 to 18.00 hours

**SECTION 2: Hazards identification** 

Classification of the substance or mixture 2.1.

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

Oxidising Solids, Category 3

H272

Full text of H statements : see section 16

Safety Data Sheet

according to Regulation (EU) 2015/830

ng to Regulation (EC) (CLP)	No. 1272/2008 [CLP]
(CLP)	
	GHS03
	: Warning
(CLP)	: H272 - May intensify fire; oxidiser
ments (CLP)	<ul> <li>P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking</li> <li>P220 - Keep/Store away from clothing//combustible materials</li> <li>P221 - Take any precaution to avoid mixing with combustibles/</li> <li>P370+P378 - In case of fire: Use for extinction</li> </ul>
g for children	: No
	: No
<b>•</b>	(CLP) ements (CLP) ug for children

Adverse physicochemical, human health and environmental effects

: May intensify fire; oxidiser.

PBT: not relevant - no registration required

vPvB: not relevant - no registration required

### **SECTION 3: Composition/information on ingredients**

3.1. Substance				
Substance type	: Mono	-constituent		
Name	: potas:	sium nitrate		
CAS No	: 7757-	79-1		
EC no	: 231-8	18-8		
Name		Product identifier	%	
potassium nitrate		(CAS No) 7757-79-1 (EC no) 231-818-8 (REACH-no) 01-2119488224-35	100	

Full text of H-statements: see section 16

#### 3.2. Mixture Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measure	S
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/injuries after inhalation	: After inhalation. Coughing. May cause irritation or asthma-like symptoms.
Symptoms/injuries after skin contact	: Red skin.
Symptoms/injuries after eye contact	: Redness of the eye tissue.
Symptoms/injuries after ingestion	<ul> <li>On ingestion in large quantities : Gastrointestinal pain. nausea, vomiting. Diarrhea. Large quantities. Blood in stool. Methemoglobinemia.</li> </ul>
Chronic symptoms	: Skin rash/inflammation.
4.3. Indication of any immediate me	dical attention and special treatment needed
Treat symptomatically.	
<b>SECTION 5: Firefighting measure</b>	es
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: Unsuitable extinguishing media. None known.
5.2. Special hazards arising from the	e substance or mixture
Fire hazard	: May intensify fire; oxidiser.
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ccording to Regulation (EU) 2015/830	
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to heat: have neighbourhood close doors and windows.
Firefighting instructions	: Do not move the load if exposed to heat. Dilute toxic gases with water spray.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
<b>SECTION 6: Accidental release meas</b>	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Reactivity hazard: compressed air/oxygen apparatus. Reactivity hazard: gas-tight suit.
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking.
Measures in case of dust release	: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.
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.	
6.3. Methods and material for containme	ent and cleaning up
For containment	: Pump up the product into a suitably labelled spare container.
Methods for cleaning up	: Recover mechanically the product. 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 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open
	tiames and other ignition sources. No smoking, wear personal protective equipment.
Hygiene measures	<ul><li>flames and other ignition sources. No smoking. Wear personal protective equipment.</li><li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li></ul>
	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includin Storage conditions	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. ng any incompatibilities
7.2. Conditions for safe storage, includin Storage conditions Incompatible materials	<ul> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> <li>ng any incompatibilities</li> <li>Store in a well-ventilated place. Keep cool.</li> </ul>
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7.2.       Conditions for safe storage, includin         Storage conditions       Incompatible materials         Storage temperature       7.3.         Specific end use(s)	<ul> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> <li>ng any incompatibilities</li> <li>Store in a well-ventilated place. Keep cool.</li> <li>combustible materials.</li> </ul>
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8.2. **Exposure controls** Appropriate engineering controls : Ensure good ventilation of the work station. : Insulated gloves. Safety glasses. Dustproof clothing. Keep away from any flames or sparking Personal protective equipment source. Hand protection : Protective gloves Eye protection : Standard EN 166 - Personal eye-protection. Skin and body protection : Wear suitable protective clothing : In case of insufficient ventilation, wear suitable respiratory equipment. Dust production: dust Respiratory protection mask with filter type P2

- Environmental exposure controls
- : Avoid release to the environment. Local exhaust and general ventilation must be adequate to meet exposure standards.
- Consumer exposure controls
- : Do not eat, drink or smoke in areas where product is used. Remove contaminated clothing immediately.

SECTION & Physical and chamical m	ionortion		
SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties			
Physical state	: Solid		
Appearance	: Crystals.		
Molecular mass	: 101,10 g/mol		
Colour	Colourless. white.		
Odour	: Odourless.		
Odour threshold	No data available		
pH	: 6 - 8 (5 %)		
pH solution	5 %		
Relative evaporation rate (butyl acetate=1)	: No data available		
Melting point	: 334 °C		
Freezing point	: Not applicable		
Boiling point	: Not applicable		
Flash point	: Not applicable		
Auto-ignition temperature	: Not applicable		
Decomposition temperature	: > 600 °C		
Flammability (solid, gas)	: Non flammable		
Vapour pressure	: < 0,001 kPa		
Relative vapour density at 20 °C	: No data available		
Relative density	: 2,1		
Density	: 2100 kg/m³		
Solubility	: Soluble in water. Soluble in glycerol. Water: 32 g/100ml Ethanol: 0,16 g/100ml		
Log Pow	: No data available		
Viscosity, kinematic	: Not applicable		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidising properties	: May intensify fire; oxidiser.		
Explosive limits	: Not applicable		
9.2. Other information			
Minimum ignition energy	: Not applicable		
SADT	: Not applicable		
VOC content	: Not applicable		
Other properties	: Translucent.		

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### SECTION 10: Stability and reactivity

### 10.1. Reactivity

Decomposes on exposure to temperature rise. On burning: release of toxic and corrosive gases/vapours hydrogen chloride carbon monoxide - carbon dioxide. Reacts violently with many compounds. May cause or intensify fire; oxidizer.

### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Reacts violently with (some) acids. combustible materials.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

Combustible materials.

10.6. Hazardous decomposition products

On burning: release of (highly) toxic gases/vapours. Potassium oxides. potassium nitrite. Nitrous fumes. Reacts violently with (some) acids.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
Potanit (7757-79-1)		
LD50 oral rat	3750 mg/kg bodyweight (Rat)	
LD50 dermal rat	> 5000 mg/kg bodyweight	
LC50 inhalation rat (mg/l)	> 0,527 mg/l/4h	
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 6 - 8 (5 %)	
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 6 - 8 (5 %)	
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)	
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)	
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)	
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)	
Specific target organ toxicity (single exposure)	: Not classified (Based on available data, the classification criteria are not met)	
Specific target organ toxicity (repeated exposure)	: Not classified (Based on available data, the classification criteria are not met)	
Aspiration hazard	: Not classified	

<b>SECTION 12: Ecological information</b>	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Ecology - air	: Not dangerous for the ozone layer.
Ecology - water	: Not harmful to fish. Mild water pollutant (surface water). May cause eutrophication at high concentrations.
Potanit (7757-79-1)	
LC50 fish 2	1378 mg/l (LC50; 96 h; Poecilia reticulata)
LC50 other aquatic organisms 2	490 mg/l (48 h; Daphnia magna)
ErC50 (algae)	> 1700 mg/l
ErC50 (other aquatic plants)	10d

### 12.2. Persistence and degradability

Potanit (7757-79-1)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	

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according to Regulation (EU) 2015/830	
12.3. Bioaccumulative potential	
Potanit (7757-79-1)	
Bioaccumulative potential	Low bioaccumulation potential.
12.4. Mobility in soil	
Potanit (7757-79-1)	
Ecology - soil	Low potential for adsorption.
12.5. Results of PBT and vPvB assessm	ent
Potanit (7757-79-1)	
PBT: not relevant – no registration required	
vPvB: not relevant – no registration required	
12.6. Other adverse effects	
Other adverse effects	: May cause eutrophication at high concentrations.
SECTION 13: Disposal consideratio	
13.1. Waste treatment methods Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Waste disposal recommendations	<ul> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>Dispose in a safe manner in accordance with local/national regulations.</li> </ul>
European List of Waste (LoW) code	: 06 10 02* - wastes containing dangerous substances
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SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / /	ADN
14.1. UN number	
UN-No. (ADR)	: 1486
UN-No. (IMDG)	: 1486
	: 1486
UN-No. (ADN) UN-No. (RID)	: 1486 : 1486
14.2.         UN proper shipping name           Proper Shipping Name (ADR)	: POTASSIUM NITRATE
Proper Shipping Name (IMDG)	: POTASSIUM NITRATE
Proper Shipping Name (IATA)	: Potassium nitrate
Proper Shipping Name (ADN)	: POTASSIUM NITRATE
Proper Shipping Name (RID)	: POTASSIUM NITRATE
Transport document description (ADR)	: UN 1486 POTASSIUM NITRATE, 5.1, III, (E)
Transport document description (IMDG)	: UN 1486 POTASSIUM NITRATE, 5.1, III
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 5.1
Danger labels (ADR)	: 5.1
	5.1
IMDG	
Transport hazard class(es) (IMDG)	: 5.1
Danger labels (IMDG)	: 5.1
	5.1
	$\mathbf{v}$

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Transport hazard class(es) (IATA)	: 5.1
Hazard labels (IATA)	: 5.1
	5.1
ADN	•
Transport hazard class(es) (ADN) Danger labels (ADN)	: 5.1 : 5.1
	5.1
RID	
Transport hazard class(es) (RID) Danger labels (RID)	: 5.1 : 5.1
14.4. Packing group	
Packing group (ADR)	: III
Packing group (IMDG)	: 111
Packing group (IATA)	: 111
Packing group (ADN)	: 111
Packing group (RID)	: 111
14.5. Environmental hazards	
Dangerous for the environment	: No
Dangerous for the environment Marine pollutant	: No : No

### 14.6. Special precautions for user

- Overland transport	
Transport regulations (ADR)	: Subject
Classification code (ADR)	: O2
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
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

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Hazard identification number (Kemler No.) Orange plates : 50

: E

: 1Z

50

1486

:

Tunnel restriction code (ADR) EAC code

### - Transport by sea

Transport regulations (IMDG)	:	Subject
Special provisions (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)	:	А
Stowage and segregation (IMDG)	:	When transpor
Properties and observations (IMDG)		White crystale

Stowage and segregation (IMDG)	: When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
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	
Transport regulations (IATA)	: Subject to the provisions
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
ERG code (IATA)	: 5L
- Inland waterway transport	
Classification code (ADN)	: 02
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
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	
Transport regulations (RID)	: Subject
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
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAV
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Special provisions for RID tanks (RID)	: TU3
Transport category (RID)	: 3
Special provisions for carriage – Bulk (RID)	: VW8
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 An	nex II of MARPOL 73/78 and the 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 Potanit is not on the REACH Candidate List Potanit is not on the REACH Annex XIV List

VOC content

: Not applicable

### 15.1.2. National regulations

Germany	
VwVwS Annex reference	: Water hazard class (WGK) 1, low hazard to waters
WGK remark	<ul> <li>Classification water polluting in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 2)</li> </ul>
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Classification remarks	: Emergency management guidelines for the storage of flammable liquids must be followed
15.2. Chemical safety assessment	

No chemical safety assessment has been carried out

### **SECTION 16: Other information**

#### Full text of H- and EUH-statements:

Ox. Sol. 3	Oxidising Solids, Category 3
H272	May intensify fire; oxidiser

#### SDS EU (REACH Annex II)

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