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SECTION 1: Ide	ntification of the substar	nce/mixture and of the cor	npany/undertaking	
1.1. Product ic	lentifier			
Product form	: 5	Substance		
Substance name : Po		otassium nitrate		
EC-No.	: 2	31-818-8		
CAS-No.	: 7	757-79-1		
Type of product	: F	ure substance		
Formula	: K	(NO3		
Chemical structure	-	О О́ ^И О́К ⁺		
v		E252 food grade / MULTI K GG / niter / nitrate of potash / nitrate of potassium / nitrate volumetril standard / nitre / nitric acid potassium salt / Potassium nitrate / saltpeter / saltpetre / vicknite		
BIG no	: 1	0150		
1.2. Relevant i	dentified uses of the substance	e or mixture and uses advised a	gainst	
1.2.1. Relevant i	dentified uses			
Use of the substance	Use of the substance/mixture : Fertilizer			
	sed against			
No additional informa 1.3. Details of				
1.3. Details of the supplier of the safety data sheet ISOLAB Laborgeräte GmbH Am Dillhof 2 - 63863 Eschau / GERMANY Tel: + 49 93 74 / 978 55-0 Fax: +49 93 74 / 978 55-29 prodsafe@isolab.de				
1.4. Emergency telephone number				
Country	Organisation/Company	Address	Emergency number	Comment
Germany	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftgebäude), UG	Hindenburgdamm 30 12203 Berlin	+49 30 19240	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Ox. Sol. 3 H272

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

Label elements 2.2.

Labelling according to Regulation (EC) No. Hazard pictograms (CLP)	1272/2008 [CLP] : GHS03	
Signal word (CLP)	: Warning	
Hazard statements (CLP)	: H272 - May intensify fire; oxidiser	
Precautionary statements (CLP)	: P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking	
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P221 - Take any precaution to avoid mixing with combustibles/...

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients			
3.1. Substances			
Name Product identifier %			
Potassium nitrate	(CAS-No.) 7757-79-1 (EC-No.) 231-818-8	100	

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measure	es
First-aid measures general	: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give alcohol to drink.
First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.
First-aid measures after eye contact	: Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritatic persists.
First-aid measures after ingestion	: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Victim is fully conscious: immediately induce vomiting. Induce vomiting by giving a 0.9 % saline solution. Ca Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you fe unwell. Ingestion of large quantities: immediately to hospital. Doctor: administration of chemica antidote.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects after inhalation	: AFTER INHALATION OF DUST: Dry/sore throat. Coughing. Irritation of the respiratory tract.
Symptoms/effects after skin contact	: Red skin. ON CONTINUOUS EXPOSURE/CONTACT: Tingling/irritation of the skin.
Symptoms/effects after eye contact	: Redness of the eye tissue. ON CONTINUOUS EXPOSURE/CONTACT: Irritation of the eye tissue.
Symptoms/effects after ingestion	: Gastrointestinal complaints. Vomiting. Nausea. Diarrhoea. AFTER ABSORPTION OF HIGH QUANTITIES: Blood in stool. Methemoglobinemia. FOLLOWING SYMPTOMS MAY APPEAR LATER: Blue/grey discolouration of the skin. Dizziness. Feeling of weakness. Disturbances of heart rate. Headache. Disturbances of consciousness.
Chronic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation.
4.3. Indication of any immediate me	edical attention and special treatment needed
No additional information available	
SECTION 5: Fire-fighting measu	res
5.1. Extinguishing media	
Suitable extinguishing media	: Adapt extinguishing media to the environment.
Unsuitable extinguishing media	: No unsuitable extinguishing media known.
5.2. Special hazards arising from the	ne substance or mixture
Fire hazard	 DIRECT FIRE HAZARD. Non combustible. INDIRECT FIRE HAZARD. Promotes combustion. Reactions involving a fire hazard: see "Reactivity Hazard".
Explosion hazard	: DIRECT EXPLOSION HAZARD. No data available on direct explosion hazard. INDIRECT EXPLOSION HAZARD. No data available on indirect explosion hazard.
5.3. Advice for firefighters	
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.
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Firefighting instructions	: Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat. Dilute toxic gases with water spray.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.
SECTION 6: Accidental release	measures
6.1. Personal precautions, protecti	ive equipment and emergency procedures
6.1.1. For non-emergency personnel	1
Protective equipment	: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Reactivity hazard: compressed air/oxygen apparatus. Reactivity hazard: gas-tight suit. See "Material-Handling" to select protective clothing.
Emergency procedures	: Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Keep containers closed. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.
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 No additional information available	
6.2. Environmental precautions	
Prevent spreading in sewers.	
6.3. Methods and material for cont	ainment and cleaning up
For containment	: Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the solid spill. Knock down/dilute dust cloud with water spray. If reacting: dilute toxic gas/vapour with water spray. Take account of toxic/corrosive precipitation water.
Methods for cleaning up	: Prevent dispersion by covering with dry sand/earth. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and stora	ge
7.1. Precautions for safe handling	
Precautions for safe handling	: Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.
7.2. Conditions for safe storage, in	
Storage temperature	: 20 °C
Heat and ignition sources Information on mixed storage	 KEEP SUBSTANCE AWAY FROM: heat sources. KEEP SUBSTANCE AWAY FROM: combustible materials. reducing agents. (strong) acids.
C C	metals. organic materials.
Storage area	: Store in a dry area. Fireproof storeroom. Detached building. Meet the legal requirements.
Special rules on packaging	 SPECIAL REQUIREMENTS: closing. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials	: SUITABLE MATERIAL: synthetic material. glass. MATERIAL TO AVOID: wood.
7.3. Specific end use(s)	
No additional information available	

SECTION 8: Ex	posure controls	/personal	protection

8.1. **Control parameters** Potassium nitrate (7757-79-1) Bulgaria Local name Калиев нитрат OEL TWA (mg/m³) Bulgaria 5 mg/m³ Latvia Kālijanitrāts Local name OEL TWA (mg/m³) Latvia 5 mg/m³ Kalio nitratas Local name Lithuania

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Potassium nitrate (7757-79-1)		
Lithuania	IPRV (mg/m ³)	5 mg/m³
Russian Federation	Local name	Калий нитрат
Russian Federation	OEL Ceiling (mg/m³)	5 mg/m³
Russian Federation	Remark (RU)	3 класс опасности - опасное; а (аэрозоль)

8.2. Exposure controls

Materials for protective clothing:

GIVE GOOD RESISTANCE: butyl rubber. neoprene. rubber. GIVE POOR RESISTANCE: natural fibres

Hand protection:

Gloves

Eye protection:

Safety glasses. In case of dust production: protective goggles

Skin and body protection:

Protective clothing

Respiratory protection:

Dust production: dust mask with filter type P2

9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: Crystalline solid. Crystalline powder.	
Molecular mass	: 101.1 g/mol	
Colour	: Colourless-white.	
Odour	: Odourless.	
Odour threshold	: No data available	
рН	: 5 - 8 (20°C; 50g/l)	
pH solution	: 5%	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: 334 °C	
Freezing point	: No data available	
Boiling point	: Not applicable	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: 400 °C	
Flammability (solid, gas)	: No data available	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: 3	
Relative density	: 2.109	
Density	: 2.109 g/cm ³	
Solubility	: Soluble in water. Soluble in glycerol. Water: 32 g/100ml Ethanol: 0.16 g/100ml	
Log Pow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: May intensify fire; oxidiser.	
Explosive limits	: No data available	

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9.2. Other information

Minimum ignition energy	: Not applicable
SADT	: Not applicable
VOC content	: Not applicable
Other properties	: Translucent.

SECTION 10: Stability and reactivity

10.1. Reactivity

Decomposes on exposure to temperature rise: release of oxygen. On burning: release of toxic and corrosive gases/vapours (nitrous vapours). Violent to explosive reaction with many compounds e.g.: with organic material, with combustible materials, with (some) metals and their compounds and with (strong) reducers. Reacts with (some) acids: release of toxic and corrosive gases/vapours (nitrous vapours).

10.2.	Chemical stability
Stable u	nder normal conditions.
10.3.	Possibility of hazardous reactions
No addit	ional information available
10.4.	Conditions to avoid
No addit	ional information available
10.5.	Incompatible materials
No addit	ional information available
10.6.	Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
Potassium nitrate (7757-79-1)		
LD50 oral rat	3750 mg/kg (Rat)	
Skin corrosion/irritation	: Not classified	
	pH: 6 - 8 (5 %)	
Serious eye damage/irritation	: Not classified	
	pH: 6 - 8 (5 %)	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).	
Ecology - water	: Mild water pollutant (surface water). Ground water pollutant. Maximum concentration in drinking water: 50 mg/l (nitrate) (Directive 98/83/EC). Not harmful to fishes (LC50(96h) >1000 mg/l). Slightly harmful to invertebrates (Daphnia) (EC50 (48h): 100 - 1000 mg/l). May cause eutrophication. Slightly harmful to plankton (EC50: 100 - 1000 mg/l).	
Potassium nitrate (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)	

12.2. Persistence and degradability		
Potassium nitrate (7757-79-1)		
Persistence and degradability	Biodegradability: not applicable.	

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Potas	sium nitrate (7757-79-1)			
Biochemical oxygen demand (BOD)			Not applicable	
Chemical oxygen demand (COD)			Not applicable	
ThOD			Not applicable	
12.3.	Bioaccumulative potential			
Potas	sium nitrate (7757-79-1)			
Bioac	cumulative potential		No bioaccumulation data available.	
12.4.	Mobility in soil			
No add	itional information available			
12.5. Results of PBT and vPvB assessment				
No add	itional information available			
12.6.	12.6. Other adverse effects			
No add	itional information available			
SECT	ION 13: Disposal consideration	S		
13.1.	Waste treatment methods			
Produc	t/Packaging disposal recommendations	:	Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Precipitate/make insoluble. Remove to an authorized dump (Class I). Do not discharge into surface water.	
Addition	nal information	:	LWCA (the Netherlands): KGA category 05. Hazardous waste according to Directive 2008/98/EC.	
Europe	an List of Waste (LoW) code	:	06 10 02* - wastes containing dangerous substances	

SECTION 14: Transport information

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

In accordance with ADR / F				
ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1486	1486	1486	1486	1486
14.2. UN proper shipp	ping name			
POTASSIUM NITRATE	POTASSIUM NITRATE	Potassium nitrate	POTASSIUM NITRATE	POTASSIUM NITRATE
Transport document dese	cription			
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
14.3. Transport hazar	d class(es)			
5.1	5.1	5.1	5.1	5.1
5.1	5.1	5.1	5.1	5.1
14.4. Packing group				
III	Ш	111	Ш	III
14.5. Environmental I	nazards			
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 a	available	·

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	: O2
Limited quantities (ADR)	: 5kg

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Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: B4
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
Hazard identification number (Kemler No.)	: 50
Orange plates	50 1486
Tunnel restriction code (ADR)	: E
EAC code	: 1Z
- 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



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	50 1486
Tunnel restriction code (ADR)	: E
EAC code	: 1Z
- 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)	: 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.
MFAG-No	: 140
- 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)	: В
Equipment required (ADN)	: PP

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Provisions prior to loading (ADN)	: LO04
Provisions for carriage in bulk (ADN)	: CO02
lumber of blue cones/lights (ADN)	: 0
dditional requirements/Remarks (ADN)	: CO02 and LO04 apply only when this substance is carried in bulk or without packaging
Rail transport	
ransport regulations (RID)	: Subject
Classification code (RID)	: 02
imited quantities (RID)	: 5kg
xcepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: B3
lixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions RID)	: T1, BK1, BK2
Portable tank and bulk container special provisions (RID)	: TP33
Γank 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, Inloading and handling (RID)	: CW24
Colis express (express parcels) (RID)	: CE11
lazard identification number (RID)	: 50
14.7. Transport in bulk according to Ann Not applicable	ex II of Marpol and the IBC Code
SECTION 15: Regulatory informatio	n
15.1. Safety, health and environmental re	egulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations	
No REACH Annex XVII restrictions	
Potassium nitrate is not on the REACH Candida	atelist
Potassium nitrate is not on the REACH Annex >	
VOC content	: Not applicable
15.1.2. National regulations	
Germany	
VwVwS Annex reference	: Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Anne 1 or 2; ID No. 346)
NGK remark	: Classification water polluting in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 2)
2th Ordinance Implementing the Federal mmission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (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
NICT limitationa liigt van vaar de voortelenting	. The substance is not listed

- NIET-limitatieve lijst van voor de voortplanting : The substance is not listed
- giftige stoffen Vruchtbaarheid NIET-limitatieve lijst van voor de voortplanting : The substance is not listed giftige stoffen – Ontwikkeling

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SECTION 16: Other information

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
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H- and EUH-statements:	
Ox. Sol. 3	Oxidising Solids, Category 3
H272	May intensify fire; oxidiser

SDS ISOLAB

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