

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## POTASSIUM NITRATE



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### SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING.

#### 1.1 Product identifier.

Product Name: POTASSIUM NITRATE  
Chemical Name: potassium nitrate  
CAS No: 7757-79-1  
EC No: 231-818-8  
Registration No: 01-2119488224-35-XXXX

#### 1.2 Relevant identified uses of the substance and uses advised against.

Product used as is, formulation or formulation of products for Horticulture, fertilizer, metal processing, water treatment, detergent, antifreeze and de-icing, frit, surface treatment industry, explosive, heat transfer (center of solar energy), glass, pyrotechnics

#### Uses advised against:

Uses other than those recommended.

#### 1.3 Details of the supplier of the safety data sheet.

Company: **ALDEBARÁN SISTEMAS SL**  
Address: C/Jerónimo Zurita, 10, entlo izda, 50001  
City: Zaragoza  
Province: Zaragoza  
Telephone: 0034976796134  
E-mail: aldebaran@aldebaransistemas.com

#### 1.4 Emergency telephone number: 0034915620420 (Available 24 hours)

### SECTION 2: HAZARDS IDENTIFICATION.

#### 2.1 Classification of the substance.

In accordance with Regulation (EU) No 1272/2008:  
Ox. Sol. 3 : May intensify fire; oxidiser.

#### 2.2 Label elements.

##### Labelling in accordance with Regulation (EU) No 1272/2008:

Pictograms:



Signal Word:

**Warning**

H statements:

H272 May intensify fire; oxidiser.

P statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P220 Keep/Store away from clothing/.../combustible materials.  
P221 Take any precaution to avoid mixing with combustibles...  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P370+P378 In case of fire: Use special powder for metal fire to extinguish.  
P501 Dispose of contents/container to local/national normative

Contains:  
potassium nitrate

### 2.3 Other hazards.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

### 3.1 Substances.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
POTASSIUMNITRATE	(CAS No) 7757-79-1 (EC no) 231-818-8 (REACH-no) 01-2119488224-35	> 97.5	Ox. Sol. 3, H272

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.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

#### Inhalation.

Remove victim to fresh air. Assure fresh air breathing. If breathing is difficult, give oxygen. Call a physician immediately.

#### Eye contact.

Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist if irritation persists.

#### Skin contact.

Remove all contaminated clothing and footwear. Wash skin thoroughly with mild soap and water. If skin irritation occurs: Get medical advice/attention. Before reuse wash work clothes

#### Ingestion.

Rinse mouth out with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Call a doctor.

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

Symptoms/injuries after inhalation: Irritation of the respiratory tract

Symptoms/injuries after skin contact: Irritation.

Symptoms/injuries after eye contact: Irritation.

Symptoms/injuries after ingestion: Gastrointestinal complaints.

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

Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES.

### 5.1 Extinguishing media.

#### Recommended extinguishing methods.

All extinguishing agents can be used

### 5.2 Special hazards arising from the substance.

Fire hazard:

Promotes combustion. Reacts with combustible materials.

Hazardous decomposition products in case of:

Toxic fumes may be released. Nitrous gas.

### 5.3 Advice for firefighters.

Firefighting instructions:

Contain the extinguishing fluids by bunding. Use water spray or fog for cooling exposed containers.

Protection during firefighting

Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.

## SECTION 6: ACCIDENTAL RELEASE MEASURES.

### 6.1 Personal precautions, protective equipment and emergency procedures.

General measures: Provide adequate ventilation to minimize dust and/or vapour concentrations

Emergency procedures: Remove all sources of ignition. No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene

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.

Do not allow product to spread into the environment. Do not discharge into drains or rivers. Notify authorities if product enters sewer or public waters.

### 6.3 Methods and material for containment and cleaning up.

Collect spilled product when it is dry. Sweep spilled substance into containers; if appropriate,moisten first to prevent dusting. Put into a labelled container and provide safe disposal. Dispose of contaminated materials in accordance with current regulations

### 6.4 Reference to other sections.

For further information refer to section 13.

For later elimination of waste, follow the recommendations under section 13.

## SECTION 7: HANDLING AND STORAGE.

### 7.1 Precautions for safe handling.

Precautions for safe handling:

Ensure good ventilation of the work station. Avoid creating or spreading dust. Extraction to remove dust at its source. Avoid contact with skin and eyes. Keep away from sources

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of ignition - No smoking. Do not expose to heat. Always follow safety warnings and handle empty packagings as if they were full.

Hygiene measures:

Do not drink, eat or smoke in the workplace. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. If on skin, take off contaminated clothing.

### 7.2 Conditions for safe storage, including any incompatibilities.

Technical measures	: Does not require any specific or particular technical measures.
Storage conditions	: Store in dry, cool, well-ventilated area. Keep container closed when not in use. Keep away from incompatible materials. Keep away from ignition sources.
Incompatible products	: Flammable or combustible materials.
Packaging materials	: Original packaging.

### 7.3 Specific end use(s).

No additional information available

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

### 8.1 Control parameters.

POTASSIUM NITRATE (7757-79-1)		
EU	IOELV TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Particles not otherwise classified)
EU	IOELV STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>

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/m <sup>3</sup>
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	12.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	10.9 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	12.5 mg/kg bodyweight/day
PNEC (Water)	
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.

#### Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

<b>Concentration:</b>	<b>100 %</b>
<b>Uses:</b>	<b>Pyrotechnical compositions</b>
<b>Breathing protection:</b>	
PPE:	Particle filter mask
Characteristics:	«CE» marking, category III. Made of filtering material, it covers nose, mouth and chin.
CEN standards:	EN 149



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Maintenance:	Check for any tears, defects, etc. before use. Since it is disposable individual protection equipment, it should be replaced after use.		
Observations:	Does not protect worker unless properly adjusted. Follow the manufacturer's instructions regarding suitable use of the equipment.		
Filter Type needed:	P2		
<b>Hand protection:</b>			
PPE:	Protective gloves.		
Characteristics:	«CE» marking, category II.		
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420		
Maintenance:	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.		
Observations:	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.		
Material:	PVC (polyvinyl chloride)	Breakthrough time (min.):	> 480
		Material thickness (mm):	0,35
<b>Eye protection:</b>			
PPE:	Protective goggles against particle impacts.		
Characteristics:	«CE» marking, category II. Eye protector against dust and smoke.		
CEN standards:	EN 165, EN 166, EN 167, EN 168		
Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.		
Observations:	Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.		
<b>Skin protection:</b>			
PPE:	Anti-static protective clothing.		
Characteristics:	«CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.		
CEN standards:	EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5		
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.		
Observations:	The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.		
PPE:	Anti-static safety footwear.		
Characteristics:	«CE» marking, category II.		
CEN standards:	EN ISO 13287, EN ISO 20344, EN ISO 20346		
Maintenance:	The footwear should be checked regularly		
Observations:	The level of comfort during use and acceptability are factors that are assessed very differently depending on the user. Therefore, it is advisable to try on different footwear models and, if possible, different widths.		

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

#### 9.1 Information on basic physical and chemical properties.

Appearance: Powder

Colour: White

Odour: Odourless

Odour threshold: N.A./N.A.

pH: 5,0-8,0 (5%)

Melting point: 334 °C

Boiling Point: N.A./N.A.

Flash point: N.A./N.A.

Evaporation rate: N.A./N.A.

Inflammability (solid, gas): N.A./N.A.

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Lower Explosive Limit: N.A./N.A.  
Upper Explosive Limit: N.A./N.A.  
Vapour pressure: N.A./N.A.  
Vapour density: N.A./N.A.  
Relative density: 2,1 g/cm<sup>3</sup>  
Solubility: 320g/l  
Liposolubility: N.A./N.A.  
Hydrosolubility: N.A./N.A.  
Partition coefficient (n-octanol/water): N.A./N.A.  
Auto-ignition temperature: N.A./N.A.  
Decomposition temperature: N.A./N.A.  
Viscosity: N.A./N.A.  
Explosive properties: N.A./N.A.  
Oxidizing properties: N.A./N.A.  
N.A./N.A.= Not Available/Not Applicable due to the nature of the product

### 9.2 Other information.

Pour point: N.A./N.A.  
Blink: N.A./N.A.  
Kinematic viscosity: N.A./N.A.  
N.A./N.A.= Not Available/Not Applicable due to the nature of the product

## SECTION 10: STABILITY AND REACTIVITY.

### 10.1 Reactivity.

Oxidant. Strongly supports combustion. May react violently with combustible materials

### 10.2 Chemical stability.

The product is stable at normal handling and storage conditions.

### 10.3 Possibility of hazardous reactions.

Can react violently with : Fuels. Acids. Reducing agents. Metallic powders

### 10.4 Conditions to avoid.

No flames, no sparks. Eliminate all sources of ignition. Heat. Keep away from incompatible materials.

### 10.5 Incompatible materials.

Flammable materials. combustible materials. reducing materials. Acids.

### 10.6 Hazardous decomposition products.

On exposure to high temperature, may decompose, releasing toxic gases (+/- 400 °C).

## SECTION 11: TOXICOLOGICAL INFORMATION.

### 11.1 Information on toxicological effects.

a) Acute toxicity: Not classified (Based on available data, the classification criteria are not met)

#### POTASSIUM NITRATE (7757-79-1)

LD50 oral rat	> 2000 mg/kg (OECD 425)
LD50 dermal rat	> 5000 mg/kg (OECD 402)
LC50 inhalation rat	> 0.527 mg/l/4h (OECD 403)

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b) skin corrosion/irritation;

Not classified (Based on available data, the classification criteria are not met) pH: 5 – 8

Not irritating to rabbits on cutaneous application (OECD 404 method)

c) serious eye damage/irritation;

Not classified (Based on available data, the classification criteria are not met) pH: 5 – 8

Not irritating to rabbits on ocular application (OECD 405)

d) respiratory or skin sensitisation;

Not classified (Based on available data, the classification criteria are not met)

Did not cause sensitisation mouse (OECD 429 method)

e) germ cell mutagenicity;

Not classified (Based on available data, the classification criteria are not met) Mutagenicity tests are negative (OECD 471 & 476)

f) carcinogenicity;

No carcinogenic effects reported.

g) reproductive toxicity;

Not classified (Based on available data, the classification criteria are not met)

NOAEL (oral, rat) :  $\geq$  1500 mg/kg/d 28 days (OECD 422)

h) STOT-single exposure;

Not conclusive data for classification.

i) STOT-repeated exposure;

Not conclusive data for classification.

j) aspiration hazard;

Not conclusive data for classification.

### SECTION 12: ECOLOGICAL INFORMATION.

#### 12.1 Toxicity.

Name	Ecotoxicity			
	Type	Test	Kind	Value
potassium nitrate	Fish	LC50	Fish	190 mg/l (96 h) [1]
		[1] Rubin, A.J., and M.A. Elmaraghy 1976. Studies on the Toxicity of Ammonia, Nitrate and Their Mixtures to the Common Guppy. Water Resour.Ctr.Rep.No.490, Ohio State Univ., Columbus, OH :47 p. (U.S.NTIS PB-255721). Rubin, A.J., and G.A. Elmaraghy 1977. Studies on the Toxicity of Ammonia, Nitrate and Their Mixtures to Guppy Fry. Water Res. 11(10):927-935		
	Aquatic invertebrates	LC50	Crustacean	490 mg/l (48 h) [1]
		[1] Dowden, B.F., and H.J. Bennett 1965. Toxicity of Selected Chemicals to Certain Animals. J.Water Pollut.Control Fed. 37(9):1308-1316		
CAS No: 7757-79-1 EC No: 231-818-8	Aquatic plants	$\geq$ 1700 mg/l (10 days) (Benthic diatoms)		

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### 12.2 Persistence and degradability.

Nitrogen and its various forms follow the nitrification/identification natural cycle

### 12.3 Bioaccumulative potencial.

No information is available regarding the bioaccumulation.

### 12.4 Mobility in soil.

Small adsorption

### 12.5 Results of PBT and vPvB assessment.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

### 12.6 Other adverse effects.

Nitrate may cause eutrophication of natural water.

## 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 to hazardous or special waste collection point.

## SECTION 14: TRANSPORT INFORMATION.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

**Land:** Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

**Sea:** Transport by ship: IMDG.

Transport documentation: Bill of lading

**Air:** Transport by plane: ICAO/IATA.

Transport document: Airway bill.

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
1486	1486	1486	1486	1486
<b>14.2. UN proper shipping name</b>				
POTASSIUM NITRATE	POTASSIUM NITRATE	Potassium nitrate	POTASSIUM NITRATE	POTASSIUM NITRATE
<b>14.3. Transport hazard class (es)</b>				
5.1	5.1	5.1	5.1	5.1
<b>14.4. Packing group</b>				
III	III	III	III	III
<b>14.5. Environmental hazards</b>				



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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
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### 14.6 Special precautions for user.

#### - *Overland transport*

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

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Special provisions for carriage - Loading, unloading and handling (ADR): CV24

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



Tunnel restriction code (ADR) : E  
EAC code : 1Z

### - Transport by sea

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

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) : 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  
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

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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

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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.**  
Not applicable

### SECTION 15: REGULATORY INFORMATION.

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

No REACH Annex XVII restrictions  
POTASSIUM NITRATE is not on the REACH  
Candidate List POTASSIUM NITRATE is not on  
the REACH Annex XIV List

Seveso Information : 5. Potassium nitrate

#### 15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### SECTION 16: OTHER INFORMATION.

Classification codes:

Ox. Sol. 3 : Oxidising solid, Category 3

Sections changed compared with the previous version:

1,2,9,16

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Abbreviations and acronyms used:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
CEN: European Committee for Standardization.  
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.  
DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.  
EC50: Half maximal effective concentration.  
PPE: Personal protection equipment.  
IATA: International Air Transport Association.  
ICAO: International Civil Aviation Organization.  
IMDG: International Maritime Code for Dangerous Goods.

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LC50: Lethal concentration, 50%.  
LD50: Lethal dose, 50%.  
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2015/830.

Regulation (EC) No 1907/2006.

Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.