



TOROS TARIM SAFETY DATA SHEET

Potassium nitrate

Commission Regulation (EU) 2020/878 of 18 June 2020.

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

1.1. Product identifier

Product name	Potassium nitrate
CAS No.	7757-79-1
EC No.	231-818-8

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

Identified uses	Plant nutrition products.
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1.3. Details of the supplier of the safety data sheet

Supplier	Toros Tarım Sanayi ve Ticaret A.Ş. Tekfen Tower Büyükdere Cad. No:209 34394 4. Levent Şişli / İstanbul T: +90 212 357 02 02 F: +90 212 357 02 31 www.toros.com.tr
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1.4. Emergency telephone number	Samsun Production Facilities: +90 362 256 09 80
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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Ox. Sol. 3 - H272
Human health	Not classified.
Environment	Not classified.

The Full Text for all Hazard Statements are Displayed in Section 16.

2.2. Label elements

Label In Accordance With (EC) No. 1272/2008

CAS No.: 7757-79-1



Signal Word	Warning
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Hazard Statements

H272	May intensify fire; oxidiser.
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Precautionary 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 and reducing agents.
P280	Wear protective gloves/protective clothing/eye protection/face protection.



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P370+ P378
P501

In case of fire: Use water to extinguish.
Dispose of contents/container in accordance with national regulations.

2.3. Other hazards

No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Name	EC No.	CAS No.	Content	Classification (EC 1272/2008)
Potassium nitrate (KNO ₃)	231-818-8	7757-79-1	> 94 %	Ox. Sol. 3 - H272

The Full Text for all Hazard Statements are Displayed in Section 16.

Composition Comments

- The data shown are in accordance with the latest EC Directives.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Information

Remove affected person from source of contamination. Chemical burns should be treated by a doctor.
Show this safety data sheet.

Inhalation

Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention.

Ingestion

Do not induce vomiting or do not give anything to drink to an unconscious person. Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention.

Skin contact

Remove affected person from source of contamination. Take off immediately all contaminated clothing. Rinse immediately with plenty of water. If symptoms are persistent get medical attention.

Eye contact

Remove affected person from source of contamination. Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention.

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

No data available.

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

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

This product is not flammable. Water should be used as an extinguisher.

Unsuitable fire extinguishers:

Chemical extinguisher, foam sand or chemical should not be used.



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5.2. Special hazards arising from the substance or mixture

Specific hazards

In case of fire, toxic gases and vapours, Carbon monoxide (CO), Carbon dioxide (CO₂), Potassium oxides may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Avoid breathing fire vapours. Clear fire area of all non-emergency personnel. Move container from fire area if it can be done without risk. Dike and collect extinguishing water. Prevent extinguish water discharge into sewers or water sources.

Protective equipment for fire-fighters

In case of fire, wear self-contained breathing apparatus and full protective clothing.
Face mask, protective gloves and safety helmet.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust. Avoid dust formation.
Avoid contact with eyes. Provide adequate ventilation.

6.2. Environmental precautions

Avoid discharge into water courses or onto the ground. In case of spills or discharges to the water source, it is necessary to apply to the relevant environmental agency or relevant authorities immediately.

6.3. Methods and material for containment and cleaning up

The spilled material should be collected mechanically and transferred to a suitable labelled waste tank. It should not mix with waste wood chips or any flammable material. Do not discharge into water sources or sewers.

6.4. Reference to other sections

For personal protection, see section 8.
See section 11 for additional information on health hazards.
For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid dust formation. Avoid contact with eyes. Eye wash facilities and emergency shower must be available when handling this product. Store away from organic and explosive materials. In case of dust formation use appropriate mask. Good personal hygiene is necessary. Do not eat, drink or smoke when using the product. Observe good chemical hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in a dry, cool place in tightly closed original packaging. It should be stored away from combustible materials and any source of ignition. Keep away from food, drinks and animal feed. Protect direct sunlight. Prevent humidity in storage.
Store away from organics and combustible materials

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

There is no specific exposure limit reported for the substance.



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8.2. Exposure controls

Protective equipment



Process conditions

Provide eyewash, quick drench.

Engineering measures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of dust.

Respiratory equipment

P2 type dust mask should be used when dust concentration is high.

Hand protection

Use protective gloves if there is a risk of contact with hands.

The most proper glove should be selected in consultation with the glove supplier. The glove supplier will be able to provide information about the permeability / deterioration time of the glove material.

Eye protection

Protective safety goggles (EN 166) or face shield should be used.

Hygiene measures

Wash hands after contact. Change work clothing daily before leaving work place.

Wash contaminated clothing before reuse. When using do not eat, drink or smoke.

Skin protection

Use proper skin protection equipment.

Environmental Exposure Controls

Please act in accordance with local and national laws.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Solid, powder.
Colour	Various colors.
Odour	Odourless
Solubility	Soluble in cold water.
Melting Point	335 °C
Initial boiling point and range	Not applicable.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Bulk density	700-1300 kg/m ³
Relative density	No information available.
pH-Value	6-9 (5 % solution)
Oxidative properties	No information available.
Explosive properties	No information available.



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9.2. Other information

No information required.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under the prescribed storage conditions.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Avoid flammable substances, acids and bases.

10.6. Hazardous decomposition products

Strong oxidisers may cause corrosion for some metals.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

LD50, Oral	>2000 mg/kg	mouse
LD50, Dermal	>5000 mg/kg	
LC50, Inhalation	>0,527 mg/l	4 h

Skin corrosion/irritation

May cause irritation.

Serious eye damage/irritation

May cause irritation.

Respiratory or skin sensitisation:

No information available.

Carcinogenicity

No information available.

STOT-single exposure

No information available.

STOT-repeated exposure

No information available.

Germ cell mutagenicity

No information available.

Reproductive Toxicity

No information available.

Aspiration Toxicity

No information available.



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Inhalation

May be harmful by inhalation. It may cause damage to the nose, throat, lungs and bronchi system.

Ingestion

May be harmful if swallowed. May cause chemical burns in mouth, esophagus and stomach.

11.2. Information on other hazards

No information available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Based on available data the classification criteria are not met.

Fish

LC50 - *Gambusia affinis* - 22,5 mg/l - 96 h

Daphnia and other crustaceous

EC50 - *Daphnia magna* (*Daphnia*)- 226 mg/l - 72 h

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

It shouldn't be discharged to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Avoid access to water sources and channels. The product packaging must be completely emptied and must be disposed of within the framework of legislation.

SECTION 14: TRANSPORT INFORMATION

General

This substance/mixture may be classified as hazardous. However, it may be dispatched as non-hazardous substance in cases when the packaging is under limited / exceptional quantity. Please follow the relevant regulations.

14.1. UN number or ID number

UN No. (ADR/RID/ADN)	1486
UN No. (IMDG)	1486
UN No. (ICAO)	1486



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14.2. UN proper shipping name

Proper Shipping Name POTASSIUM NITRATE

14.3. Transport hazard class(es)

ADR/RID/ADN Class 5.1
ADR/RID/ADN Class Class 5.1: Oxidising substances
ADR Label No. 5.1
IMDG Class 5.1
ICAO/IATA Class 5.1
Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group III
IMDG Packing group III
ICAO/ IATA Packing group III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

Limited Quantities 5 Kg
EMS F-A, S-Q
Emergency Action Code 1Z
Hazard No. (ADR) 50
Tunnel Restriction Code (E)

14.7. Maritime transport in bulk according to IMO instrument

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

- Commission Regulation (EU) 2020/878 of 18 June 2020.
- Health and Safety at Work etc. Act 1974 (as amended).
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
- 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 (as amended).

Restrictions (Annex XVII Regulation 1907/2006)

There are no known restrictions on the use of this product.

Seveso Directive - Control of major accident hazards

Not relevant.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.



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SECTION 16: OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
IATA: International Air Transport Association.
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
CAS: Chemical Abstracts Service.
ATE: Acute Toxicity Estimate.
LC₅₀: Lethal Concentration to 50 % of a test population.
LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
EC₅₀: 50% of maximal Effective Concentration.
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.

Information Sources

This SDS is written based on the information received from rawmaterial supplier.
European Chemicals Agency (ECHA)

Revision Comments

Revised in compliance with current regulations.

Hazard Statements in Full

H272 May intensify fire; oxidiser.

Issued By

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Issued Note

This SDS is prepared based on the information and documents received from product owner. CRAD or/and SDS author shall not be responsible for incorrect prepared of SDS and pecuniary loss or intangible damages because of deficient or wrong information and documents which comes from product owner

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