

Safety Data sheet

According to Directive 1907/2006

3501 POTASSIUM NITRATE GMP

Creation Date: 29/06/2013 Revision date: 31/05/2017

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: 3501 Product name: POTASSIUM NITRATE GMP Use of the substance: Analysis and chemical-pharmaceutical production glass chemical strengthening by ion exchange REACH registration Nr.: 01-2119488224-35-0059

Company/undertaking identification

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2. Hazards identification

Labelling in accordance with directive 1907/2006



R-phrases

8 Contact with combustible material may cause fire.

S-phrases

16 Keep away from sources of ignition - No smoking.

41 In case of fire and/or explosion do not breathe fumes.

Labelling in accordance with directive 1272/2008



H-phrases

272 May intensify fire; oxidiser.

P-phrases

210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

221 Take any precaution to avoid mixing with combustibles.

Signal word : WARNING

OXIDICING

R-phrases:

Contact with combustible material may cause fire.

3. Composition/information on ingredients

For the full text of the R phrases mentioned in this section, see Section 16.

CAS-No.: 7757-79-1

Molecular Weight: 101,11

Chemical formula: KNO_3

EC-No.: 231-818-8

R-phrases 8

For more information about the R-Phrases text you can consult the paragraph 16

4. First aid measures

After inhalation:

Fresh air

After skin contact:

Rinse with abundant water (or have a shower)

Get rid of the contaminated clothes

After eye contact:

Rinse with abundant water, keeping eyelids open (at least 10 min)

Call the ophthalmologist

After swallowing:

Drink lots of water

Call the doctor

5. Fire-fighting measures

Suitable extinguishing media:

Water

Special risks:

Fireproof

Ambient fire may liberate hazardous vapours

In case of fire, nitrous gases can be formed

Fire promoting

Keep away from combustibles materials

Special protective equipment for fire fighting:

Remain in the risk area only if provided with independent artificial respiratory systems.

Other information:

Precipitate emergent steam with water

Avoid the penetration of the extinction water in superficial or subterraneous aquifers.

6. Accidental release measures

Person-related precautionary measures:

Do not inhale dust

Avoid dust formation

Avoid contact with the substance

Procedures for cleaning/absorption:

Dry cleaning. Proceed to the elimination of any waste.
Rinse.

Environmental protection measures:

Do not send it to the sewerage system

7. Handling and storage

Handling: Without other exigencies

Storage:

Well closed

Storage temperature: without limits

Moved away of inflammable substances, sources of ignition and heat

8. Exposure controls/personal protection

Personal protective equipment:

Respiratory protection:

Necessary respiratory protection in the presence of dust

Hand protection:

Protection gloves:

Nitrile rubber

Eye protection:

Needed

Other protective equipment:

Change immediately contaminated clothes

Wash hands when work is finished

Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Solid

Colour: Colourless

Odour: Odourless

pH value: 4.5-8.5 (50 g/l H₂O)

Melting point: 334°C

Boiling point: 400°C

Solubility: 320 g/l (water)

10. Stability and reactivity

Substances to be avoided:

Sulfur.

Metals in powder form.

Magnesium.

Phosphorus.

Metal (powder).

Carbon.

Combustible substances.

Boron.

Sulfur.

Organic substances.

Phosphorus.

Hazardous decomposition products:

Nitrous fumes.

Further information:

Avoid dust formation

11.Toxicological information

Acute toxicity:

LD50 (oral, rat): 3750 mg/kg

After eye contact:

Slight irritation

After long contact:

Due to absorption:

Metahemoglobinemia

Headache

Spasms

Hypotension

Cyanosis

Cardiac dysrhythmia

Dyspnoea

After swallowing:

Nausea

Vomiting

Diarrhoea

Further toxicological information:

The precautions adapted for chemical agents must be observed

Other dangerous characteristics are not discarded

12.Ecological information

Fishes: *P. reticulata*: LC50: 1378 mg/l/96h.

Daphnia: *Daphnia magna*: EC50: 490 mg/l/48h.

Other harmful effects:

May contribute to the eutrophication of water supplies

Hazard for drinking water supplies

Do not allow to enter waters, waste water, or soil

13.Disposal considerations

Product:

Dispose as regulated in the community countries by local regulations.

Please contact with the suitable authority in each case (Public Administration or company specialized in

Packaging:

Product packaging disposal must be disposed of in compliance with the respective local regulations.

For contaminated packaging the same measures must be adopted as for the contaminated product.

Not contaminated packaging must be disposed of as domestic residues or recycled material.

European Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

14. Transport information

Overland transport ADR/RID

UN: 1486
Class: 5.1
Packaging group: III
Correct technical name: POTASSIUM NITRATE

Sea transport IMDG

UN: 1486
Class: 5.1/III
Packaging group: III
Correct technical name: POTASSIUM NITRATE

Air transport ICAO-IATA-DGR

UN: 1486
Class: 5.1
Packaging group: III
Correct technical name: POTASSIUM NITRATE
CAO: 563
PAX: 559

15. Regulatory information

16. Other information

Full text of R phrases mentioned in sections 2 and 3

8 Contact with combustible material may cause fire.

The information contained herein is based on the present state of our knowledge.

It characterizes the product with regard to appropriate safety precautions. It does not represent a guaranty of the properties of the product.