

Safety Data sheet

According to Directive 1907/2006

3846 POTASSIUM CHLORATE GMP

Creation Date: 00/00/0000 Revision date: 31/05/2017

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

Identification of the product

Catalogue No: 3846 Product name: POTASSIUM CHLORATE GMP Use of the substance: Chemical analysis. Chemical production.
REACH registration Nr.: 01-2119494917-18-0000

Company/undertaking identification

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2. Hazards identification

Labelling in accordance with directive 1907/2006



R-phrases

9 Explosive when mixed with combustible material.
20/22 Harmful by inhalation and if swallowed.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases

13 Keep away from food, drink and animal feedingstuffs.
16 Keep away from sources of ignition - No smoking.
27 Take off immediately all contaminated clothing.
61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

Labelling in accordance with directive 1272/2008



**H-phrases**

271 May cause fire or explosion.
332 Harmful if inhaled.
302 Harmful if swallowed.
411 Toxic to aquatic life with long lasting effects.

P-phrases

210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
221 Take any precaution to avoid mixing with combustibles.
371+380+375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
309+311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Signal word : DANGER

OXIDIZING; HARMFUL

R-phrases:

Explosive when mixed with combustible material.
Harmful by inhalation and if swallowed.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients

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

CAS-No.: 3811-04-9

Molecular Weight: 122,55

Chemical formula: $KClO_3$

EC-Index-No.: 017-004-00-3

EC-No.: 223-289-7

R-phrases 9; 20/22; 51/53

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

4. First aid measures

After inhalation:

Fresh air
Artificial respiration
Give oxygen by specialized people
Call the physician

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
Foam
Carbon dioxide
Dust

Special risks:

Fireproof
Avoid blows and rubbing
Ambient fire may liberate hazardous vapours
The following may develop in event of fire: chlorine
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.
In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Other information:

Cool the containers with dewy of water from a safe distance
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:

Avoid contact with the substance
Do not inhale dust
Ventilation in closed spaces

Procedures for cleaning/absorption:

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

To avoid the inert dust formation

Environmental protection measures:

Do not send it to the sewerage system

7. Handling and storage

Handling: Without other exigencies

Storage:

Well closed
Moved away of sources of ignition and heat
Dry place.
Storage temperature: without limits
Moved away inflammable substances

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
Recommendable preventive protection of the skin
Wash hands and face when the work is finished
Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Solid
Colour: White
Odour: Odourless
pH value: 5,6 (73 g/l H₂O)
Melting point: 368°C
Boiling point: 400°C
Solubility: 73 g/l (water)

10. Stability and reactivity

Substances to be avoided:

Fluorine.
Sulfur.
Hydride.
Ammonia.
Alkaline metals.
Alkaline-amides.
Metals in powder form.
Alcohols.
Resines.
Tannin.
Nitrates.
Zinc oxide.
Arsenic.
Charcoal.
Organic and inorganic reducing substances.

Hazardous decomposition products:

Not available.

Further information:

Sensitive to contact.
Sensitive to knocks.
Danger of explosion.

11. Toxicological information

Acute toxicity:

LD50 (oral, rat): 1870 mg/kg. LDLo (oral, human): 1000 mg/kg.

After eye contact:

Slight irritation

After skin contact:

Slight irritation symptoms

After inhalation:

Irritations of the mucous membranes
Coughing
Dyspnoea

After long contact:

Metahemoglobinemia
Spasms
Cyanosis
Dyspnoea
Kidney problems
Hepatic problems

After swallowing:

Nausea
Vomiting
Diarrhoea
Collapse
Death

Further toxicological information:

The precautions adapted for chemical agents must be observed

12. Ecological information

Fishes: *Leuciscus idus*: LC50: 3500 mg/l.
Daphnia: *Daphnia magna*: EC50: 880 mg/l.
Algae: *Scenedesmus quadricauda*: IC5: 0,24 mg/l.
Bacteria: *Microcystis aeruginosa*: EC5: 12 mg/l

Other harmful effects:

Harmful effect on aquatic organisms
May cause long-term adverse effects in the aquatic environment
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: 1485
Class: 5.1
Packaging group: II
Correct technical name: POTASSIUM CHLORATE

Sea transport IMDG

UN: 1485
Class: 5.1/II
Packaging group: II
Correct technical name: POTASSIUM CHLORATE

Air transport ICAO-IATA-DGR



UN: 1485
Class: 5.1
Packaging group: II
Correct technical name: POTASSIUM CHLORATE
CAO: 562
PAX: 558

15.Regulatory information

16.Other information

Full text of R phrases mentioned in sections 2 and 3

9 Explosive when mixed with combustible material.

20/22 Harmful by inhalation and if swallowed.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.