



Creation Date 24-Nov-2010

Revision Date 03-May-2012

Revision Number 2

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

Product Identifier Product Description: Cat No. Synonyms

Potassium chlorate 418190000; 418190050; 418195000 Berthollet`s Salt; Chlorate of Potash; Salt of Tarter

Relevant identified uses of the substance or mixture and uses advised againstRecommended UseLaboratory chemicalsUses advised againstNo Information available

Details of the supplier of the safety data sheetCompanyAcros Organics BVBAJanssen Pharmaceuticalaan 3a2440 Geel, BelgiumE-mail addressbegel.sds

begel.sdsdesk@thermofisher.com

Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99 Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300 CHEMTREC Phone Number, Europe: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture REGULATION (EC) No 1272/2008

| Acute oral toxicity | Category 4 |
|---|------------|
| Acute Inhalation Toxicity - Dusts and Mists | Category 4 |
| Chronic aquatic toxicity | Category 2 |
| Oxidizing solids. | Category 1 |

Classification according to EU Directives 67/548/EEC or 1999/45/EC

 For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

 Symbol(s)
 O - Oxidizing Xn - Harmful

 R-phrase(s)
 R 9 - Explosive when mixed with combustible material

 Risk Combination Phrases
 R20/22 - Harmful by inhalation and if swallowed

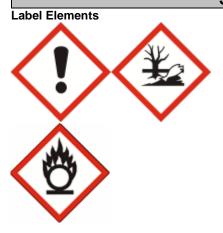
 R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment





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SECTION 2. HAZARDS IDENTIFICATION



Signal WordDangerHazard StatementsH411 - Toxic to aquatic life with long lasting effectsH302 - Harmful if swallowedH332 - Harmful if inhaledH271 - May cause fire or explosion; strong oxidizer

Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P273 - Avoid release to the environment
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

Other Hazards

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | EC-No. | Weight % | CAS-No | 67/548/EEC Classification | CLP Classification - Regulation (EC) No 1272/2008 | REACH No. |
|---------------------------------|-------------------|----------|-----------|----------------------------------|---|-----------|
| Potassium chlorate 3811-04-9 | EEC No. 223-289-7 | >95 | 3811-04-9 | Xn; R20/22 N; R51-53 O; R9 | Acute Tox. 4 (H332) Acute Tox. 4 (H302) Aquatic Chronic 2 (H411) Ox. Sol. 1 (H271) | - |





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For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4. FIRST AID MEASURES

| Description of first aid measures Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention. |
|--|---|
| Skin Contact | Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur. |
| Ingestion | Do not induce vomiting. Call a physician or Poison Control Center immediately. |
| Inhalation | Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required. |
| Notes to Physician | Treat symptomatically |

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Cool closed containers exposed to fire with water spray. Water spray. Carbon dioxide (CO₂). Dry chemical. chemical foam.

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

Oxidizer: Contact with combustible/organic material may cause fire. Containers may explode when heated.

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid dust formation.

Environmental precautions

Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up





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Keep combustibles (wood, paper, oil, etc) away from spilled material. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Use only under a chemical fume hood. Wear personal protective equipment. Keep away from clothing and other combustible materials. Avoid dust formation. Do not breathe dust. Do not breathe vapors or spray mist. Do not ingest.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Do not store near combustible materials.

Specific End Uses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

| Component | Latvia | Lithuania | Luxembourg | Malta | Romania |
|--------------------|--------------------------|-----------|------------|-------|---------|
| Potassium chlorate | TWA: 5 mg/m ³ | | | | |

| Biological limit values Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC) | This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies. No information available. No information available. |
|--|---|
| Exposure controls | |
| Engineering Measures Personal protective equipment Eye Protection Hand Protection Skin and body protection Respiratory Protection | Use only under a chemical fume hood Ensure adequate ventilation, especially in confined areas Ensure that eyewash stations and safety showers are close to the workstation location Goggles Protective gloves Long sleeved clothing When workers are facing concentrations above the exposure limit they must use appropriate certified respirators |
| Hygiene Measures Environmental exposure controls | Handle in accordance with good industrial hygiene and safety practice No information available. |





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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance odor pH Boiling Point/Range Melting Point/Range Decomposition temperature Flash Point Autoignition Temperature Water Solubility Molecular Formula Molecular Weight Powder, Solid White odorless 5-6 73 g/l aq. sol. No information available. 356 - 368°C / 672.8 - 694.4°F 400 °C No information available. No information available. 73 g/L (20°C) Cl K O3 122.55

SECTION 10. STABILITY AND REACTIVITY

Reactivity

| Reactive Hazard | Yes |
|------------------------|-----|
| Chemical Stability | |

Oxidizer: Contact with combustible/organic material may cause fire.

Possibility of Hazardous Reactions

Hazardous PolymerizationHazardous polymerization does not occur.Hazardous Reactions .No information available.

Conditions to Avoid

Excess heat, Incompatible products, Combustible material.

Incompatible Materials

Acids, Alcohols, Strong reducing agents, Hydrocarbons, Organic materials, Powdered metals.

Hazardous Decomposition Products

Hydrogen chloride gas. Chlorine.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity



SAFETY DATA SHEET

Potassium chlorate

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| SECTION 11. TOXICOLOGICAL INFORMATION | | | | |
|---|---|---------------------------------|-----------------|--|
| Component Information | | | | |
| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation | |
| Potassium chlorate | 1870 mg/kg (Rat) | 2000 mg/kg (Rabbit) | | |
| Chronic Toxicity Carcinogenicity Sensitization Mutagenic Effects | There are no known carcino No information available. No information available | genic chemicals in this product | | |
| Mutagenic Effects Reproductive Effects | No information available. | | | |
| Developmental Effects | No information available. | | | |
| Target Organs | Respiratory system Gastrointestinal tract (GI) | | | |
| Other Adverse Effects | See actual entry in RTECS for complete information | | | |
| Endocrine Disruptor Information | None known | | | |

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

| Ecotoxicity effects | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment | | | |
|---------------------|--|----------------------|----------|-----------------------|
| Component | Freshwater Algae | Freshwater Fish | Microtox | Water Flea |
| Potassium chlorate | | 1750 mg/L LC50 96 h | | 1093 mg/L EC50 = 24 h |
| | | 13500 mg/L LC50 96 h | | - |

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

Other adverse effects

No information available





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SECTION 13. DISPOSAL CONSIDERATIONS

|--|

| Waste from Residues / Unused Products | Dispose of in accordance with local regulations |
|--|--|
| Contaminated Packaging | Empty containers should be taken to local recyclers for disposal |

SECTION 14. TRANSPORT INFORMATION

IMDG/IMO

| UN-No | 1485 |
|----------------------|--------------------|
| Hazard Class | 5.1 |
| Packing Group | II |
| Proper Shipping Name | POTASSIUM CHLORATE |

ADR

| UN-No | 1485 |
|----------------------|--------------------|
| Hazard Class | 5.1 |
| Packing Group | II |
| Proper Shipping Name | POTASSIUM CHLORATE |

IATA

| UN-No | 1485 |
|----------------------|--------------------|
| Hazard Class | 5.1 |
| Packing Group | II |
| Proper Shipping Name | POTASSIUM CHLORATE |

SECTION 15. REGULATORY INFORMATION

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

International Inventories

| Component | EINECS | ELINCS | NLP | TSCA | DSL | NDSL | PICCS | ENCS | CHINA | AICS | KECL |
|--------------------|-----------|--------|-----|------|-----|------|-------|------|-------|------|------|
| Potassium chlorate | 223-289-7 | - | | Х | Х | - | Х | Х | Х | Х | Х |

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

SAFETY DATA SHEET



Potassium chlorate

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EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

AICS - Inventory of Chemical Substances

KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment

SECTION 16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R 9 - Explosive when mixed with combustible material

R20/22 - Harmful by inhalation and if swallowed

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Revision Date Revision Summary 03-May-2012

Reason for revisionNot applicableThis safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet