



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

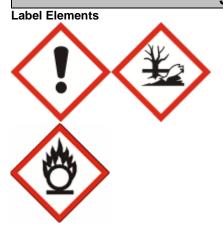
 R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment





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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 (CO<sub>2</sub>). 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 <sup>3</sup>				

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

<b>Reactive Hazard</b>	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

#### Revision Date 03-May-2012

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**

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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

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End of Safety Data Sheet