

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Honeywell

Potassium perchlorate

60440-1KG

Version 1.1

Revision Date 30.04.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Potassium perchlorate

SDS-number : 000000020263

Type of product : Substance

Remarks : SDS according to Art. 31 of Regulation (EC) 1907/2006.

Chemical name : potassium perchlorate

Index-No. : 017-008-00-5

REACH Registration Number : no data available

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

Use of the Substance/Mixture : Laboratory chemicals

Uses advised against : none

1.3. Details of the supplier of the safety data sheet

Company : Honeywell International Inc. 115 Tabor Road 07950-2546 Morris Plains USA
Honeywell International, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546 USA

Telephone :
Telefax :
For further information, please contact: : PMTEU Product Stewardship: SafetyDataSheet@Honeywell.com

1.4. Emergency telephone number

Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport)
+1-303-389-1414 (Medical)

Country based Poison Control Center : see chapter 15.1

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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REGULATION (EC) No 1272/2008

Oxidizing solids Category 1
H271 May cause fire or explosion; strong oxidizer.
Acute toxicity Category 4 - Oral
H302 Harmful if swallowed.

2.2. Label elements

REGULATION (EC) No 1272/2008

Hazard pictograms : 

Signal word : Danger

Hazard statements : H271 May cause fire or explosion; strong oxidizer.
H302 Harmful if swallowed.

Precautionary statements : P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

2.3. Other hazards

Explosive when mixed with combustible material.

SECTION 3: Composition/information on ingredients

3.1. Substance

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
potassium perchlorate	7778-74-7 017-008-00-5 231-912-9	Ox. Sol. 1; H271 Acute Tox. 4; H302	<= 100 %	1*

1* - For specific concentration limits see Annexes of 1272/2008

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3.2. Mixture

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:

First aider needs to protect himself. Move out of dangerous area. Show this safety data sheet to the doctor in attendance.

Inhalation:

If inhaled, remove to fresh air. If symptoms persist, call a physician.

Skin contact:

Wash off immediately with plenty of water.

Eye contact:

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion:

A person suspected to have swallowed the substance who is conscious should be given water to drink. Take to a doctor immediately together with this card

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

no data available

See Section 11 for more detailed information on health effects and symptoms.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet

Foam

Carbon dioxide (CO₂)

Dry powder

Extinguishing media which shall not be used for safety reasons:

High volume water jet

5.2. Special hazards arising from the substance or mixture

Fire or intense heat may cause violent rupture of packages.

In fires, the product supports combustion.

The product itself does not burn.

5.3. Advice for firefighters

Personal protection through wearing a tightly closed chemical protection suit and a self-contained breathing apparatus.

No unprotected exposed skin areas.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Unprotected persons must be kept away.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Clean contaminated floors and objects thoroughly while observing environmental regulations.

6.3. Methods and materials for containment and cleaning up

Take up mechanically and collect in suitable container for disposal.

Protect from contamination.

Do not pick up with the help of saw-dust or other combustible substances.

6.4. Reference to other sections

For personal protection see section 8.

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SECTION 7: Handling and storage**7.1. Precautions for safe handling***Advice on safe handling:*

Wear personal protective equipment. Exhaust ventilation at the object is necessary. Never return unused material to storage receptacle. Protect from contamination. Do not heat the product. Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion:

The product is not flammable. Fire or intense heat may cause violent rupture of packages.

Hygiene measures:

Separate rooms are required for washing, showering and changing clothes. Contaminated work clothing should not be allowed out of the workplace. Keep working clothes separately. When using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities*Further information on storage conditions:*

Store in original container. Store away from incompatible substances. Do not leave vessels/containers open. Containers should be protected against falling down. Avoid product residues in/on containers. Store in a place accessible by authorized persons only.

Advice on common storage:

Do not store with combustible materials.

7.3. Specific end use(s)

no additional data available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

DNEL/ PNEC-Values

No DNEL-data available.

No PNEC data available.

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8.2. Exposure controls**Occupational exposure controls**

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, safety shoes EN-ISO 20345.

Engineering measures

Use with local exhaust ventilation.

Personal protective equipment*Respiratory protection:*

In the case of dust or aerosol formation use respirator with an approved filter.

Hand protection:

Glove material: Nitrile rubber

Break through time: > 480 min

Glove thickness: 0,11 mm

Dermatril® P743

Gloves must be inspected prior to use.

Replace when worn.

Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions (e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.

Manufacturer's directions for use should be observed because of great diversity of types .

Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

Eye protection:

Tightly fitting safety goggles

Skin and body protection:

Wear suitable protective equipment.

Lightweight protective clothing

Lab coat

Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

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Form	:	crystalline
Colour	:	white
Odour	:	odourless
Melting point/range	:	> 400 °C Decomposes before melting.
Boiling point/boiling range	:	Not applicable Decomposes on heating.
Flash point	:	Not applicable
Flammability (solid, gas)	:	The product is not flammable.
Ignition temperature	:	Not applicable
Auto-ignition temperature	:	not auto-flammable
Oxidizing properties	:	The substance or mixture is classified as oxidizing with the category 1.
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Vapour pressure	:	negligible
Density	:	2,52 g/cm ³ at 20 °C
Bulk density	:	no data available
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
pH	:	no data available
Water solubility	:	7,9 g/l at 0 °C
Water solubility	:	13,7 g/l at 10 °C
Water solubility	:	18 g/l at 20 °C
Water solubility	:	201 g/l

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at 100 °C

Partition coefficient: n- : Not applicable
octanol/water

9.2 Other Information

no additional data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

> 400 °C

Decomposes before melting.

No decomposition if used as directed.

10.3. Possibility of hazardous reactions

Decomposes on heating.

10.4. Conditions to avoid

Protect from heat/overheating.

Protect from contamination.

To avoid thermal decomposition, do not overheat.

Keep away from combustible material.

10.5. Incompatible materials

Reactions with combustible substances.

Reactions with metals in powder form.

As oxidising agent, attacks organic substances such as wood, paper, fats.

Mixtures of inflammable substances are easily combustible and burn vigorously even under exclusion of air.

10.6. Hazardous decomposition products

Oxygen

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

LD50

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Species: Mouse
Value: 3.621 mg/kg

Classification based on Annex VI of regulation 1272/2008/EC.

Acute dermal toxicity:
no data available

Acute inhalation toxicity:
no data available

Skin irritation:
no data available

Eye irritation:
no data available

Respiratory or skin sensitisation:
no data available

Repeated dose toxicity:
Species: Rat, male and female
Application Route: Oral
Exposure time: 90 d
NOAEL: 1 mg/kg bw/day
Test substance: REACH dossier "read-across"

Test Method: Chromosome aberration test
Species: Rat, male and female
Cell type: Bone marrow
Application Route: Oral
Test substance: REACH dossier "read-across"
Result: negative

Aspiration hazard:
no data available

Other information:
no data available

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish:
no data available

Toxicity to aquatic plants:
no data available

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Toxicity to Microorganisms:

no data available

Toxicity to aquatic invertebrates:

no data available

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

no data available

12.6. Other adverse effects

The methods for determining biodegradability are not applicable to inorganic substances.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product:

Dispose according to legal requirements.

Packaging:

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

Further information:

Provisions relating to waste:

EC Directive 2006/12/EC; 2008/98/EEC

Regulation No. 1013/2006

For personal protection see section 8.

SECTION 14: Transport information

ADR/RID

UN Number : 1489

Description of the goods : POTASSIUM PERCHLORATE

Class : 5.1

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Packaging group : II
Classification Code : O2
Hazard Identification : 50
Number
ADR/RID-Labels : 5.1
Environmentally hazardous : no

IATA

UN Number : 1489
Description of the goods : Potassium perchlorate
Class : 5.1
Packaging group : II
Hazard Labels : 5.1

IMDG

UN Number : 1489
Description of the goods : POTASSIUM PERCHLORATE
Class : 5.1
Packaging group : II
Hazard Labels : 5.1
EmS Number : F-H, S-Q
Marine pollutant : no

SECTION 15: Regulatory information

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

Poison Control Center

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+35929)154233
Croatia	(+3851)23-48-342
Cyprus	no data available
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959
Greece	no data available
Hungary	(+36-80)201-199
Iceland	5432222

Country	Phone Number
Latvia	+37167042473
Liechtenstein	no data available
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	no data available
Netherlands	030-2748888
Norway	22591300
Poland	no data available
Portugal	808250143
Romania	no data available
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	no data available
Spain	+34915620420

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Ireland	+353(1)8092166
Italy	no data available
Germany	Berlin : 030/19240
	Bonn : 0228/19240
	Erfurt : 0361/730730
	Freiburg : 0761/19240
	Göttingen : 0551/19240
	Homburg : 06841/19240
	Mainz : 06131/19240
	Munich : 089/19240

Sweden	112 (begär Giftinformation);+46104566786
United Kingdom	no data available

Other inventory information

US. Toxic Substances Control Act
On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act
On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)
All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List
On the inventory, or in compliance with the inventory

Japan. Industrial Safety & Health Law (ISHL) List
On the inventory, or in compliance with the inventory

Korea. Toxic Chemical Control Law (TCCL) List
On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act
On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances
On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand
On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

Text of H-statements referred to under heading 3

potassium perchlorate	:	H271	May cause fire or explosion; strong oxidizer.
		H302	Harmful if swallowed.

Further information

All directives and regulations refer to amended versions.

Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations:

EC European Community

CAS Chemical Abstracts Service

DNEL Derived no effect level

PNEC Predicted no effect level

vPvB Very persistent and very bioaccumulative substance

PBT Persistent, bioaccumulative and toxic substance

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

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