

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

MaterialPotassium Perchlorate (Free flow)
Potassium Perchlorate (High Purity)CAS No7778-74-7CompanyInoxia Ltd
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2) Hazard Identification

Classification according to Regulation (EC) No 1272/2008



Label elements

- · Labelling according to Regulation (EC) No 1272/2008
- The substance is classified and labelled according to the CLP regulation.
- · Hazard pictograms



· Signal word Danger

· Hazard-determining components of labelling:

Hazard statements

H271 May cause fire or explosion; strong oxidiser.

H302 Harmful if swallowed.

Precautionary statements

P221 Take any precaution to avoid mixing with combustibles.

P283 Wear fire/flame resistant/retardant clothing.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P220 Keep/Store away from clothing/combustible materials.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling.

P270 Do no eat, drink or smoke when using this product.

P306+P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

P371+P380+P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.

3) Composition

Dangerous components:

Name	CAS No.	Content	Hazard
	EINECS No.		
Potassium	7778-74-7	99.8%	Ox. Sol. 1, H271
Perchlorate	231-912-9		Acute Tox. 4, H302

4) First Aid Measures Description of first aid measures

General information	If you feel unwell, seek medical advice (show the label where possible).
After inhalation	Remove victim immediately from source of exposure.
	Supply fresh air; consult doctor in case of complaints.
After skin contact	Remove contaminated clothing.
	Immediately wash with water and soap and rinse thoroughly.
	Rinse with water.
	If skin irritation continues, consult a doctor.
After eye contact	Remove contact lenses.
	Immediately flush eyes with plenty of water for atleast 15
	minutes and get medical attention if irritation persist.
After swallowing	Rinse mouth thoroughly.
	Drink water or milk.
	Never give an unconscious person anything through the
	mouth.
	DO NOT INDUCE VOMITING.
	Obtain medical attention
Information for doctor	Most important symptoms and effects, both acute and delayed
	The severity of the symptoms described will vary dependant
	of the concentration and the length of exposure.

Effects may be delayed. Keep affected person under observation. Cyanosis (blue tissue condition, nails, lips and/or skin). Gastrointestinal symptoms, including upset stomach. Nausea Vomiting

5) Fire Fighting

Oxidising materials, although not classified as combustible, can either by yielding oxygen or by similar processes, increase the risk and intensity of fires in other materials which they come into contact with.

Contact with combustible material may cause fire

With this substance contact with combustible material or reducing agents may cause an explosion

Suitable extinguishing media

Water CO₂ Foam Sand Earth Dry chemical Do not use water in a jet

Solutions spilled on clothing and allowed to dry may self ignite giving severe burns Drums should be sprayed with water to prevent risk of explosion If involved in a fire harmful fumes may be evolved. Self contained breathing apparatus should be worn.

6) Accidental Release

Wear suitable protective equipment Avoid contact with skin and eyes Do not inhale dust Shovel or vacuum up Do not adsorb into sawdust or other combustible material Avoid raising dust clouds Deposit in a safe place, in a clearly marked container

7) Handling/Storage

Keep in tightly closed containers in a dry area away from heat Containers may explode if heated Store away from heat, sources of ignition, flammable substances, reducing substances or combustible materials No smoking Ensure good ventilation, if dust may be generated Do not inhale dust Wear suitable protective equipment

8) Exposure Controls

Workplace Exposure Limits (WEL) EH40/2005 No specific exposure limit has be assigned, however, personal exposure should be kept below 10mg/m³ [8 hour TWA] Total inhalable dust 4mg/m³ [8 hour TWA] Respirable dust

The airborne concentration should be kept below the above exposure standards by the use of appropriate ventilation and collection measures. If this is not practicable then personal protection must be worn.

Respiratory protection	Wear an approve mask for fine harmful inorganic dusts, half or full face
	depending on conditions with type P3 white cartridge
Hand protection	Wear natural rubber, PVC or Nitrile rubber gloves for maximum protection
_	and breakthrough time (BTT). Check with suppliers concerning the
	performance of gloves. Provide good protection during normal working
Eye protection	Wear approved chemical safety goggles giving complete protection to
	the eyes
Clothing	Wear overalls, preferably with apron and safety boots. All skin should
-	be covered

9) Physical/Chemical Properties

Appearance	White crystalline solid or white powder
Odour	Odourless
Melting Range	>150°C decomposes at 400 °C
SG	2.52
Solubility in Water	Soluble

10) Stability/Reactivity

Reactivity

Chemical stability

Thermal decomposition / conditions to be avoided:

Stable under recommended storage and handling conditions(See section 7).

Possibility of hazardous reactions

No dangerous reactions known.

Conditions to avoid

Avoid heat, flame and other sources of ignition.

Exposure to moisture.

Avoid exposure to air.

Incompatible materials

Strong reducing agents Flammable/combustible material. Metal powders. Strong acids. alcohol. Glycols

Hazardous decomposition products

Fire or high temperatures create: Chlorine Carbon monoxide (CO) and carbon dioxide (CO2)

11) Toxicological Info

Harmful if swallowed

Ingestion or inhalation may give symptoms of nausea, vomiting and muscular weakness Excessive amounts may cause systemic damage

May cause burns to the skin and eyes

The solid and solutions are irritating to the skin and eyes and may cause chemical burns Dust may be irritating to the nose, mucous membranes, respiratory tract and may result in coughing and breathing difficulties

Solutions spilled on clothing and allowed to dry may self-ignite giving severe burns

12) Ecological Information

Toxicity

Aquatic toxicity EC50/48h 670 mg/l (Daphnia)

General notes: Avoid transfer into the environment.

13) Disposal Consideration

Waste material should be shovelled or vacuumed up Placed in a labelled, dry, closed container in a safe place and disposed of in accordance with The Environmental Protection Act 1990 and Hazardous Waste Regulations 2005

14) **Transport Information**

UN/UK:	
UN No.	1489
UN Haz Class	5.1
Proper shipping name	Potassium Perchlorate
Classification	Oxidising substance
Symbol	Oxidiser
Packing Group	II
Emergency action code	1Y
ADR/RID:	
UN No.	1489
UN Haz Class	5.1
Proper shipping name	Potassium Perchlorate
Classification	Oxidising substance
Symbol	Oxidiser
Packing Group	II
Hazard classification	50
IATA/ICAO:	
UN No.	1489
UN Haz Class	5.1
Proper shipping name	Potassium Perchlorate
Classification	Oxidising substance
Symbol	Oxidiser
Packing Group	II
IMCO:	
UN No.	1489
UN Haz Class	5.1
Proper shipping name	Potassium Perchlorate
Classification	Oxidising substance
Symbol	Oxidiser

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15) Regulatory Information

Packing Group

Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008 Hazard statements Please refer section 2. National regulations: Information about limitation of use:

Employment restrictions concerning juveniles must be observed. **Chemical safety assessment**: A Chemical Safety Assessment has not been carried out.

16) Other Information

Relevant phrases
H271 May cause fire or explosion; strong oxidiser.
H302 Harmful if swallowed.
R22 Harmful if swallowed.
R9 Explosive when mixed with combustible material.

This information is for health and safety guidance only, is not a material specification, and does not constitute the user's own assessment of suitability, and workplace risk as required by any other Health and Safety legislation. It is accurate to the best of our knowledge and belief, but since the conditions of handling and use are outside our control we make no guarantee of results, and assume no liability for damages incurred by use of this material.