

Safety Data Sheet


in accordance with HSNO

Revision: 02 January 2020

1 Identification of the substance or mixture and of the supplier

- **Product identifier**
- **Trade name:** Potassium Chromate Indicator
- **Product code:** PC8025SS
- **Recommended use:** Laboratory chemicals
- **Restrictions on use:** No further relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
AquaPhoenix Scientific, Inc.
860 Gitts Run Road
Hanover, PA 17331 USA
Phone: (717)632-1291
Toll-Free: (866)632-1291
info@aquaphoenixsci.com
- **Emergency telephone number:**
ChemTel Inc.
1-800-526-4727 (North America)
1-314-985-1511 (International)
Emergencies within Australia - 131126 (NSW Poison Control Centre)
Emergencies within New Zealand - 0800 764 766 (National Poison Control Centre)

2 Hazards identification

- **Classification (Australia, New Zealand)**
New Zealand HSNO - Hazardous (Classified according to the Minimum Degrees of Hazard Regulations 2001)
- **Hazard pictograms**


GHS07 GHS08 GHS09
- **Signal word** Danger
- **Hazard statements**
H316 Causes mild skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H340 May cause genetic defects.
H350 May cause cancer.
H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.

(Cont'd. on page 2)

Safety Data Sheet

in accordance with HSNO

Revision: 02 January 2020

Trade name: Potassium Chromate Indicator

(Cont'd. from page 1)

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 If exposed or concerned: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P337+P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

P405 Store locked up.

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

- **Other hazards** There are no other hazards not otherwise classified that have been identified.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/Information on ingredients

- **Chemical characterisation: Mixtures**

- **Components:**

7789-00-6	potassium chromate Acute Tox. 3, H301 Muta. 1B, H340; Carc. 1B, H350 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	<10%
7732-18-5	Water	>90%

- **SVHC**

7789-00-6	potassium chromate
-----------	--------------------

- **Additional information:** For the wording of the listed Hazard Statements refer to section 16.

4 First aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation or rash occurs: Get medical advice/attention.
- **After eye contact:**
Protect unharmed eye.
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
- **Most important symptoms and effects, both acute and delayed**
Gastric or intestinal disorders when ingested.

(Cont'd. on page 3)

Safety Data Sheet

in accordance with HSNO

Revision: 02 January 2020

Trade name: Potassium Chromate Indicator

(Cont'd. from page 2)

Allergic reactions

Nausea in case of ingestion.

Causes mild skin irritation.

Causes serious eye irritation.

· **Hazards:**

May cause an allergic skin reaction.

May cause genetic defects.

May cause cancer.

· **Indication of any immediate medical attention and special treatment needed**

Medical supervision for at least 48 hours.

If medical advice is needed, have product container or label at hand.

5 Fire fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

· **For safety reasons unsuitable extinguishing agents:** No further relevant information available.

· **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

· **Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Wear protective clothing.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

· **Environmental precautions**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Methods and material for containment and cleaning up**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable receptacles.

Dispose of the material collected according to regulations.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Prevent formation of aerosols.

Use only in well ventilated areas.

(Cont'd. on page 4)

Safety Data Sheet

in accordance with HSN0

Revision: 02 January 2020

Trade name: Potassium Chromate Indicator

(Cont'd. from page 3)

- Avoid splashes or spray in enclosed areas.
- Information about fire - and explosion protection:** No special measures required.
- Conditions for safe storage, including any incompatibilities**
- Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Due to photo-sensitivity, store product in brown-glass receptacles.
Store in a cool location.
- Information about storage in one common storage facility:**
Store away from foodstuffs.
Do not store together with acids.
- Further information about storage conditions:** Keep container tightly sealed.
- Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- Control parameters**
- Ingredients with limit values that require monitoring at the workplace:**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

7789-00-6 potassium chromate

WES (New Zealand)	Long-term value: 0.01 mg/m ³ bio, sen, skin, confirmed carcinogen, as Cr
WES (Australia)	Long-term value: 0.05 mg/m ³ Sen, as Cr
PEL (USA)	Long-term value: 0.005* mg/m ³ Ceiling limit: 0.1** mg/m ³ *as Cr(VI) **as CrO ₃ ; see 29 CFR 1910.1026
REL (USA)	Long-term value: 0.0002 mg/m ³ as Cr; See Pocket Guide Apps. A and C
TLV (USA)	Short-term value: 0.0005 mg/m ³ Long-term value: 0.0002 mg/m ³ as Cr(VI); inhalable, Skin; BEI, DSEN, RSEN

- Ingredients with biological limit values:**

7789-00-6 potassium chromate

BEI (USA)	25 µg/L Medium: urine Time: end of shift at end of workweek Parameter: Total chromium (fume)
	10 µg/L Medium: urine Time: increase during shift Parameter: Total chromium (fume)

- Exposure controls**
- General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.

(Cont'd. on page 5)

Safety Data Sheet

in accordance with HSNO

Revision: 02 January 2020

Trade name: Potassium Chromate Indicator

(Cont'd. from page 4)

Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.

- **Respiratory protection:**

Not required under normal conditions of use.
Use suitable respiratory protective device when high concentrations are present.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves**

Nitrile rubber, NBR
Neoprene gloves
Butyl rubber, BR
Natural rubber, NR

Sensibilisation by the components in the glove materials is possible.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment:**

No further relevant information available.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **Appearance**

Form:	Liquid
Colour:	Light yellow
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value:	Not determined.
Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	105-110 °C

Flash point:	The product is not flammable.
--------------	-------------------------------

Flammability (solid, gas):	Not applicable.
----------------------------	-----------------

Auto/Self-ignition temperature:	Not determined.
---------------------------------	-----------------

(Cont'd. on page 6)

Safety Data Sheet

in accordance with HSNO

Revision: 02 January 2020

Trade name: Potassium Chromate Indicator

(Cont'd. from page 5)

· Decomposition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
· Oxidising properties	Not determined.
· Vapour pressure at 20 °C:	23 hPa
· Density at 20 °C:	>1.17 g/cm ³
· Relative density:	Not determined.
· Vapour density:	Not determined.
· Evaporation rate:	Not determined.
· Solubility in / Miscibility with water:	Soluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
Toxic fumes may be released if heated above the decomposition point.
Reacts with strong acids.
- **Conditions to avoid**
Direct sunlight.
Excessive heat.
- **Incompatible materials** No further relevant information available.
- **Hazardous decomposition products**
Under fire conditions only:
Toxic metal oxide smoke

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· LD/LC50 values relevant for classification:
7789-00-6 potassium chromate
Oral LD50 180 mg/kg (mouse)

(Cont'd. on page 7)

Safety Data Sheet

in accordance with HSNO

Revision: 02 January 2020

Trade name: Potassium Chromate Indicator

(Cont'd. from page 6)

- **Primary irritant effect**
- **Skin corrosion/irritation:** Causes mild skin irritation.
- **Serious eye damage/irritation:** Causes serious eye irritation.
- **Respiratory or skin sensitisation:** Sensitisation possible through skin contact.

· IARC (International Agency for Research on Cancer):
--

None of the ingredients are listed.

- **Probable routes of exposure:**

Ingestion.
Inhalation.
Eye contact.
Skin contact.

- **Acute effects (acute toxicity, irritation and corrosivity):**

Causes serious eye irritation.
Causes mild skin irritation.

- **Repeated dose toxicity:**

Repeated exposure may result in skin sensitivity.
Danger of very serious irreversible effects.

- **Germ cell mutagenicity:** May cause genetic defects.

- **Carcinogenicity:** May cause cancer.

- **Reproductive toxicity:** Based on available data, the classification criteria are not met.

- **STOT-single exposure:** Based on available data, the classification criteria are not met.

- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

- **Aspiration hazard:** Based on available data, the classification criteria are not met.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** Toxic for aquatic organisms

- **Persistence and degradability** No further relevant information available.

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:** Toxic for fish

- **Additional ecological information:**

- **General notes:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Toxic to aquatic life with long lasting effects.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

13 Disposal considerations

(Cont'd. on page 8)

Safety Data Sheet

in accordance with HSNO

Revision: 02 January 2020

Trade name: Potassium Chromate Indicator

(Cont'd. from page 7)

- **Waste treatment methods**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**

- **DOT, ADR/RID/ADN, IMDG, IATA**

UN3082

- **UN proper shipping name**

- **DOT, ADR/RID/ADN, IMDG, IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (potassium chromate), MARINE POLLUTANT

- **Transport hazard class(es)**

- **DOT, IMDG, IATA**



- **Class**

9

- **Label**

9

- **ADR/RID/ADN**



- **Class**

9 (M6)

- **Label**

9

- **Packing group**

- **DOT, ADR/RID/ADN, IMDG, IATA**

III

- **Environmental hazards:**

Product contains environmentally hazardous substances: potassium chromate

- **Marine pollutant:**

Symbol (fish and tree)

- **Special precautions for user**

Warning: Miscellaneous dangerous substances and articles.

- **Hazard identification number (Kemler code):** 90

- **EMS Number:**

F-A,S-F

- **Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

(Cont'd. on page 9)

Safety Data Sheet

in accordance with HSNO

Revision: 02 January 2020

Trade name: Potassium Chromate Indicator

(Cont'd. from page 8)

15 Regulatory information

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

· IARC (International Agency for Research on Cancer)

7789-00-6	potassium chromate	1
-----------	--------------------	---

· Australia

· Australian Inventory of Chemical Substances

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients are listed.

· New Zealand Inventory of Chemicals (NZIOC)

All ingredients are listed.

· HSNO Approval numbers

7789-00-6	potassium chromate	HSR004649
-----------	--------------------	-----------

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulable, Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity - oral - Category 3

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Skin Corr. 3: Skin corrosion/irritation - Category 3

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

Skin Sens. 1: Skin sensitisation - Category 1

Muta. 1B: Germ cell mutagenicity - Category 1B

Carc. 1B: Carcinogenicity - Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

· Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN:

(Cont'd. on page 10)

Safety Data Sheet

in accordance with HSNO

Revision: 02 January 2020

Trade name: Potassium Chromate Indicator

(Cont'd. from page 9)

978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com