

⊢⊑ Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

Issue date: 17/02/2020 Revision date: 17/02/2025

SECTION 1: Identification

Product identifier

: POTASSIUM CHROMATE Trade name

EC-No. : 232-140-5 EC Index-No. : 024-006-00-8 CAS-No. : 7789-00-6 UN-No. (ADR) . 3077 Product code : 116095xxx Formula : K2CrO4

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

Recommended uses and restrictions : For laboratory use only

Supplier's details

Labchem (Pty)Ltd 6 Wakefield Road Founders Hill 1609 Johannesburg - South Africa T +27 11 452 1116 - F +27 86 588 0293 techlab@labchem.co.za - www.labchem.co.za

Emergency telephone number

Emergency number : +27 11 452 1116

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to the United Nations GHS

Acute toxicity (oral), Category 3 H301 Skin corrosion/irritation, Category 2 H315 Skin sensitisation, Category 1 H317 Germ cell mutagenicity, Category 1B H340 Specific target organ toxicity — Single H335 exposure, Category 3, Respiratory tract

irritation

Hazardous to the aquatic environment —

Acute Hazard, Category 1

Hazardous to the aquatic environment —

Chronic Hazard, Category 1

Full text of H statements : see section 16

(M=10)

H410

H400

Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS-ZA)







GHS06

GHS08

GHS09

Signal word (GHS-ZA) : Danger

Hazard statements (GHS-ZA) : H301 - Toxic if swallowed.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. H340 - May cause genetic defects.

H410 - Very toxic to aquatic life with long lasting effects.

P201 - Obtain special instructions before use. Precautionary statements (GHS-ZA)

P202 - Do not handle until all safety precautions have been read and understood.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area.

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. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

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P302+P352 - IF ON SKIN: Wash with plenty of water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P312 - Call a POISON CENTER or doctor if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P330 - Rinse mouth.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

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

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

P391 - Collect spillage.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Adverse physicochemical, human health and environmental effects

May cause genetic defects, Toxic if swallowed, May cause respiratory irritation, Causes skin irritation, May cause an allergic skin reaction, Very toxic to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance identification codes: See section 1.1

| Name | Product identifier | % | Classification according to the United Nations GHS |
|--|---------------------|------|--|
| potassium chromate (Main constituent) | (CAS-No.) 7789-00-6 | ≥ 98 | Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Skin Sens. 1, H317 Muta. 1B, H340 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 |

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Call a physician immediately.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. Doctor: administration of corticoid spray. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact

: Wash immediately with lots of water. Do not apply (chemical) neutralizing agents without medical advice. Remove clothing before washing. Take victim to a doctor if irritation persists. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact

: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist if irritation persists. Rinse eyes with water as a precaution.

First-aid measures after ingestion

: Rinse mouth with water. Do not apply (chemical) neutralizing agents without medical advice. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Call Poison Information Centre (www.big.be/antigif.html). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Take the container/vomit to the doctor/hospital. Doctor: gastric lavage. Rinse mouth. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation

: AFTER INHALATION OF DUST: Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. FOLLOWING SYMPTOMS MAY APPEAR LATER: Risk of lung oedema. May cause respiratory irritation.

Symptoms/effects after skin contact

: Tingling/irritation of the skin. Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact

: Irritation of the eye tissue. ON CONTINUOUS EXPOSURE/CONTACT: Corrosion of the eye tissue.

Symptoms/effects after ingestion

: Nausea. Vomiting. AFTER INGESTION OF HIGH QUANTITIES: Bleeding of the gastrointestinal tract. Slowing heart action. Shock. FOLLOWING SYMPTOMS MAY APPEAR LATER: Enlargement/affection of the liver. Affection of the renal tissue.

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Chronic symptoms

Slow-healing wounds. Skin rash/inflammation. Inflammation/damage of the eye tissue. Affection of the nasal septum. Change in the haemogramme/blood composition. Possible inflammation of the respiratory tract. Lung tissue affection/degeneration. Enlargement/affection of the liver. Affection of the renal tissue.

Potential adverse human health effects and symptoms

Causes skin irritation. Practically non-toxic in contact with skin (LD50 skin > 2000 mg/kg). May cause respiratory irritation. Causes serious eye irritation. Caution! Substance is absorbed through the skin.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Adapt extinguishing media to the environment for surrounding fires. Water spray. Dry powder. Foam

Special hazards arising from the substance or mixture

Fire hazard

: DIRECT FIRE HAZARD: Non combustible. INDIRECT FIRE HAZARD: Promotes combustion. Reactions involving a fire hazard: see "Reactivity Hazard". : INDIRECT EXPLOSION HAZARD: Reactions with explosion hazards: see "Reactivity Hazard".

Explosion hazard

Hazardous decomposition products in case of

: Toxic fumes may be released.

Advice for firefighters

Precautionary measures fire

Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions

Cool tanks/drums with water spray/remove them into safety. Take account of toxic fire-fighting

water. Use water moderately and if possible collect or contain it.

Protection during firefighting

Heat/fire exposure; compressed air/oxygen apparatus. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

No additional information available

For non-emergency personnel 6.1.1.

Protective equipment

: Gloves. Face shield. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Dust cloud production: dust-tight suit.

Emergency procedures

Mark the danger area. Prevent dust cloud formation. No naked flames. Keep containers closed. Wash contaminated clothes. In case of reactivity hazard: consider evacuation. Only qualified personnel equipped with suitable protective equipment may intervene. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Environmental precautions

Avoid release to the environment. Prevent soil and water pollution. Prevent spreading in sewers. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment

: Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill. Knock down/dilute dust cloud with water spray. Collect spillage.

Methods for cleaning up

Mechanically recover the product. Prevent dust cloud formation. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling. Notify

authorities if product enters sewers or public waters.

Other information

Dispose of materials or solid residues at an authorized site.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

Ensure good ventilation of the work station. Avoid raising dust. Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep container tightly closed. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

Hygiene measures

: Observe very strict hygiene - avoid contact. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Storage area

: Store in a dry area. Keep container in a well-ventilated place. Keep locked up. Unauthorized persons are not admitted. Meet the legal requirements.

Heat and ignition sources

: KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage

: KEEP SUBSTANCE AWAY FROM: combustible materials. reducing agents. (strong) acids.

organic materials.

Special rules on packaging

: SPECIAL REQUIREMENTS: closing. clean. correctly labelled. meet the legal requirements.

Secure fragile packagings in solid containers.

Packaging materials

: SUITABLE MATERIAL: steel. synthetic material. MATERIAL TO AVOID: iron. copper.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls

Environmental exposure controls

: Ensure good ventilation of the work station.

: Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Materials for protective clothing

: GIVE EXCELLENT RESISTANCE: natural rubber. nitrile rubber. GIVE GOOD RESISTANCE:

butyl rubber. PVC

Hand protection

: Gloves

Eye protection

. Gloves

Lyo protootion

: Face shield. In case of dust production: protective goggles

Skin and body protection

: Protective clothing. In case of dust production: head/neck protection. In case of dust

production: dustproof clothing

Respiratory protection

: Dust production: dust mask with filter type P3. High dust production: self-contained breathing

apparatus

Personal protective equipment symbol(s):



Physical state







: Solid



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance : Crystalline solid.

Molecular mass : 194.19 g/mol

Colour : Yellow.

Odour : Odourless.

Odour threshold : No data available

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рΗ : 8.6 - 10 (5.0 %) pH solution : No data available Relative evaporation rate (butylacetate=1) : No data available Relative evaporation rate (ether=1) : No data available

968 °C Melting point

Freezing point : Not applicable Boiling point : No data available Flash point Not applicable Auto-ignition temperature Not applicable Decomposition temperature : No data available Flammability (solid, gas) : Non flammable. Vapour pressure Not applicable Vapour pressure at 50 °C No data available Relative vapour density at 20 °C : Not applicable Relative density : 2.73 (20 °C) Relative density of saturated gas/air mixture : No data available Density 2730 kg/m³

Relative gas density No data available Soluble in water. Solubility

Water: 39.4 g/100ml (30 °C)

Partition coefficient n-octanol/water (Log Pow) : No data available Partition coefficient n-octanol/water (Log Kow) : No data available Viscosity, kinematic : No data available Viscosity, dynamic No data available No data available Explosive properties Oxidising properties : No data available **Explosive limits** Not applicable Lower explosive limit (LEL) No data available Upper explosive limit (UEL) : No data available

Other information

Minimum ignition energy : Not applicable SADT : Not applicable

VOC content : Not applicable (inorganic)

Other properties Basic reaction.

SECTION 10: Stability and reactivity

Reactivity

Reacts violently with many compounds e.g.: with combustible materials, with (strong) reducers and with organic material with (increased) risk of fire/explosion. Decomposes on exposure to temperature rise: oxidation resulting in increased fire or explosion risk.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

Conditions to avoid

None under recommended storage and handling conditions (see section 7).

Incompatible materials

No additional information available

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

: Toxic if swallowed. Acute toxicity (oral) Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

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| POTASSIUM CHROMATE (7789-00-6) | | | |
|---|--|--|--|
| LD50 oral rat | 67 – 129 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Readacross, Oral, 14 day(s)) | | |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Dermal, 14 day(s)) | | |
| LC50 inhalation rat (mg/l) | 0.094 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Read-across, Inhalation (aerosol), 14 day(s)) | | |
| Skin corrosion/irritation | : Causes skin irritation. | | |
| | pH: 8.6 – 10 (5.0 %) | | |
| Serious eye damage/irritation | : Not classified | | |
| | pH: 8.6 – 10 (5.0 %) | | |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. | | |
| Germ cell mutagenicity | : May cause genetic defects. | | |
| Carcinogenicity | : Not classified | | |
| Reproductive toxicity | : Not classified | | |
| STOT-single exposure | : May cause respiratory irritation. | | |
| STOT-repeated exposure | : Not classified | | |
| | | | |
| Aspiration hazard | : Not classified | | |
| Potential adverse human health effects and symptoms | : Causes skin irritation. Practically non-toxic in contact with skin (LD50 skin > 2000 mg/kg). May cause respiratory irritation. Causes serious eye irritation. Caution! Substance is absorbed through the skin. | | |
| SECTION 12: Ecological information | | | |
| 12.1. Toxicity | | | |
| Ecology - general | : Dangerous for the environment. Very toxic to aquatic life with long lasting effects. | | |
| Ecology - air | : Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). | | |
| Ecology - water | : Very toxic to crustacea. Harmful to fishes. Very toxic to fish, with long lasting effects. Very toxic to algae. Very toxic to algae, with long lasting effects. | | |
| Hazardous to the aquatic environment, short- erm (acute) | : Very toxic to aquatic life. | | |
| Hazardous to the aquatic environment, long- term (chronic) | : Very toxic to aquatic life with long lasting effects. | | |
| POTASSIUM CHROMATE (7789-00-6) | | | |
| LC50 fish 1 | 58.5 mg/l (96 h, Danio rerio, Fresh water, Read-across, Lethal) | | |
| EC50 Daphnia 1 | 0.035 mg/l (48 h, Daphnia magna, Read-across) | | |
| EC50 72h algae (1) | 0.233 mg/l (Selenastrum capricornutum, Static system, Fresh water, Read-across, Growth) | | |
| 12.2. Persistence and degradability | | | |
| POTASSIUM CHROMATE (7789-00-6) | | | |
| Persistence and degradability | Biodegradability: not applicable. | | |
| Chemical oxygen demand (COD) | Not applicable (inorganic) | | |
| ThOD | Not applicable (inorganic) | | |
| 12.3. Bioaccumulative potential | | | |
| POTASSIUM CHROMATE (7789-00-6) | | | |
| Bioaccumulative potential | No bioaccumulation data available. | | |
| 12.4. Mobility in soil | | | |
| POTASSIUM CHROMATE (7789-00-6) | | | |
| Mobility in soil | No additional information available | | |
| Ecology - soil | No (test)data on mobility of the substance available. | | |
| | 110 (1001) and 011 modify of the substantes artificable. | | |
| 12.5. Other adverse effects | | | |

SECTION 13: Disposal considerations

13.1. Disposal methods

Other adverse effects

Ozone

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

: No additional information available

: Not classified

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Product/Packaging disposal recommendations

: Do not discharge into drains or the environment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Remove to an authorized dump (Class I). Remove for physico-chemical/biological treatment.

Additional information : Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

| SANS | IMDG | IATA | | | |
|--|--|--|--|--|--|
| 14.1. UN number | | | | | |
| 3077 | 3077 | 3077 | | | |
| 14.2. Proper Shipping Name | | | | | |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. | Environmentally hazardous substance, solid, n.o.s. | | | |
| 14.3. Transport hazard class(es) | | | | | |
| 9 | 9 | 9 | | | |
| | | Not applicable | | | |
| 14.4. Packing group | | | | | |
| III | III | III | | | |
| 14.5. Environmental hazards | | | | | |
| Dangerous for the environment : Yes | Dangerous for the environment : No : | Dangerous for the environment : No | | | |
| No supplementary information available | | | | | |

14.6. Special precautions for user

- SANS

Transport regulations (UN) : Subject to the provisions Special provisions (SANS) : 179, 274, 331, 335

Limited quantities (SANS) : 5 kg
Limited quantities (SANS) : 5 kg

Packagings, large packagings and IBCs : P002, IBC08, LP02

Packing instructions (SANS)

Packagings, large packagings and IBCs Special : PP12, B3

packing instructions (SANS)

Portable tank and bulk containers instructions

(SANS)

Portable tank and bulk container special

provisions (SANS)

: T1, BK2

: TP33

- IMDG

Transport regulations (IMDG) : Subject to the provisions Special provisions (IMDG) : 274, 335, 966, 967, 969

Limited quantities (IMDG) : 5 kg

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : LP02, P002

Special packing provisions (IMDG) : PP12

IBC packing instructions (IMDG) : IBC08

IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : BK1, BK2, BK3, T1

Tank special provisions (IMDG) : TP33

EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE

EmS-No. (Spillage) : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS

Stowage category (IMDG) : A

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- IATA

Transport regulations (IATA) : Subject to the provisions

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y956
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg
CAO packing instructions (IATA) : 956
CAO max net quantity (IATA) : 400kg

Special provisions (IATA) : A97, A158, A179, A197

ERG code (IATA) : 9L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

Regulatory reference : SANS 10234:2008; SANS 11014:2010; SANS 10228:2012; SANS 10229:2010; SANS

10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National

Road Traffic Act 93 of 1996.

SECTION 16: Other information

Issue date : 17/02/2020
Revision date : 17/02/2025

Full text of H-statements:

| H301 | Toxic if swallowed. | |
|------|---|--|
| H315 | Causes skin irritation. | |
| H317 | May cause an allergic skin reaction. | |
| H335 | May cause respiratory irritation. | |
| H340 | May cause genetic defects. | |
| H400 | Very toxic to aquatic life. | |
| H410 | Very toxic to aquatic life with long lasting effects. | |

SDS South Africa

The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is ntended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.

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