

SAFETY DATA SHEET

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

1.1 Product identifiers

Product name Potassium Dichromate 0.1N Solution

CAS number 7778-50-9

Synonyms N/A

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

Identified uses Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute Inhalation Toxicity - Vapors

Respiratory Sensitization

Skin Sensitization

Germ Cell Mutagenicity

Category 1

Category 1

Category 1

Category 1

Category 1A

Reproductive Toxicity

Category 1B

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2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

Hazard statements Harmful if inhaled.

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

May cause genetic defects.

May cause cancer.

May damage fertility; may damage the unborn child.

Precautionary statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray.

Response: IF exposed or concerned, get medical attention/advice.

IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

Storage: Store locked up. Store in a well-ventilated place. Keep container

tightly closed.

Disposal: Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Harmful to aquatic life with long lasting effects. WARNING: Cancer and Reproductive Harm.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water	Aqua: H2O	7732-18-5	99.5-99.75%
Potassium dichromate	Potassium bichromate	7778-50-9	0.25-0.5%

SECTION 4: First aid measures

4.1 Description of first-aid measures

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General advice

If inhaled Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-

to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is

required.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Get

medical attention.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

If swallowed Do NOT induce vomiting. Call a physician or poison control center

immediately.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Substance is nonflammable; use agent most

appropriate to extinguish surrounding fire.

Unsuitable extinguishing mediaNo information available.

5.2 Specific hazards arising from the substance or mixture

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Hazardous Combustion Products: Potassium oxides. Chromium oxide.

5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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5.4 Further information

Flash Point No information available.

Autoignition Temperature No information available.

Explosion limits

Upper No data available.Lower No data available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

NFPA

Health	Flammability	Instability	Physical hazards
2	0	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Do not get in eyes, on skin, or on clothing.

6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information. Avoid release to the environment. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Use only under a chemical fume hood. Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Do not breathe mist/vapors/spray. Do not ingest. If swallowed, seek immediate medical assistance.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

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Storage conditions

Keep containers tightly closed in a dry, cool, and well-ventilated place.

Incompatibilities

Strong oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Potassium dichromate	(Vacated) Ceiling	0.1 mg/m3
	Ceiling	0.1 mg/m3

US. ACGIH Threshold Limit Values

Component	Туре	Value
Potassium dichromate	TWA	0.0002 mg/m3
Polassium dichiomale	STEL	0.0005 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value
Potassium dichromate	IDLH	15 mg/m3
	TWA	0.0002 mg/m3

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Body Protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

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Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended Filter type: Particulates filter conforming to EN 143.

Control of environmental exposure

No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Liquid
Appearance Orange
Odor Odorless

Odor Threshold

pH

3.6 100g/l aq. sol

Melting Point/Range

No data available

Boiling Point/Range No information available Evaporation Rate No information available

Flammability (solid) Not applicable
Flammability or explosive limit No data available

Upper

Lower

Vapor Pressure
Vapor Density
No information available
Partition coefficient;
No data available

n-octanol/water

Autoignition Temp

Decomposition Temp

Viscosity

No information available

No information available

Molecular Formula Cr2 K2 O7
Molecular Weight 294.18 g/mol

VOC Content(%)

Oxidizing properties

No information available

No information available

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

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10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Incompatible products. Excess heat.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Potassium oxides, Chromium oxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium dichromate	130 mg/kg (Rat)	1150 mg/kg (Rabbit)	0.09 mg/L/4h (Rat)

Skin corrosion/irritation

No information available.

Serious eye damage/eye irritation

No information available.

Respiratory or skin sensitization

May cause sensitization by inhalation and skin contact.

Germ cell mutagenicity

Mutagenic effects have occurred in humans.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed				
Potassium dichromate	7778-50-9	Group 1	Known	A1	Х	A1

Specific target organ toxicity - single exposure

None known.

Specific target organ toxicity - repeated exposure

Cardiovascular system, Blood.

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Reproductive toxicity

May impair fertility. May cause harm to the unborn child.

Chronic effects

No information available.

11.2 Additional Information

The toxicological properties have not been fully investigated.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. Do not allow material to contaminate ground water system.

Product		Species	Test Results
Potassium dichromate	LC50	Pimephales promelas	14 - 20.9 mg/L, 96h static 15.41 - 30.36 mg/L, 96h flow- through
	LC50	Poecilia reticulata	23 - 41.2 mg/L, 96h static 24.81 - 34.55 mg/L, 96h semi- static
	LC50	Cyprinus carpio	> 139 mg/L, 96h static
	LC50	Lepomis macrochirus	320 mg/L, 96h 65.6 - 137.6 mg/L, 96h static 113.6 - 155.7 mg/L, 96h flow- through
	LC50	Oncorhynchus mykiss	12.3 mg/L, 96h semi-static
	LC50	Oryzias latipes	21.209 - 30.046 mg/L, 96h semi-static
	EC50	Water Flea	1.4 mg/L 24h

12.2 Persistence and degradability

May persist based on information available.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

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12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US) Not regulated.

IMDG Not regulated.

IATA Not regulated.

SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Listed, Potassium dichromate (CAS #7778-50-9), Section 6.

CERCLA Hazardous Substance List (40 CFR 302.4)

Listed, Potassium dichromate (CAS #7778-50-9), RQ: 10 lb.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Listed, Potassium dichromate (CAS #7778-50-9).

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed

SARA 311/312 Hazardous

See Section 2 for more information.

SARA 313 (TRI reporting)

Listed, Potassium dichromate (CAS #7778-50-9).

Other federal regulations

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Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Listed, Potassium dichromate (CAS #7778-50-9).

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Clean Water Act (CWA)

Listed, Potassium dichromate (CAS #7778-50-9), RQ: 10 lb.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed.

US state regulations

US. Massachusetts RTK - Substance List

Listed, Potassium dichromate (CAS #7778-50-9).

US. New Jersey Worker and Community Right-to-Know Act

Listed, Potassium dichromate (CAS #7778-50-9).

US. Pennsylvania Worker and Community Right-to-Know Law

Listed, Potassium dichromate (CAS #7778-50-9).

California Proposition 65

Listed, Potassium dichromate (CAS #7778-50-9).

SECTION 16: Other information

Issue date: 11/07/2024

SECTION 17: Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

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