SAFETY DATA SHEET

1. Identification

Product identifier CAIROX® potassium permanganate

Other means of identification

SDS number

7722-64-7 **CAS** number

Recommended use Potassium Permanganate is an oxidant recommended for applications that require a strong

oxidant.

Use in accordance with supplier's recommendations. Recommended restrictions

Manufacturer/Importer/Supplier/Distributor information

Company name CARUS CORPORATION

Address 315 Fifth Street,

Peru, IL 61354, USA

+1 815 223-1500 - All other non-emergency inquiries about the product should be directed to Telephone

the company

E-mail salesmkt@caruscorporation.com Website www.caruscorporation.com

Contact person Shelley Corban

For Hazardous Materials [or Dangerous Goods] Incidents ONLY **Emergency Telephone**

(spill, leak, fire, exposure or accident), call CHEMTREC at

CHEMTREC®, USA: 001 (800) 424-9300

CHEMTREC®, Mexico (Toll-Free - must be dialed from within country): 01-800-681-9531

CHEMTREC®, Other countries: 001 (703) 527-3887

2. Hazard(s) identification

Physical hazards Oxidizing solids Category 2 **Health hazards** Category 4 Acute toxicity, oral Skin corrosion/irritation Category 1C

Serious eye damage/eye irritation Category 1

Specific target organ toxicity, repeated Category 2 (Liver)

exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 1

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement May intensify fire; oxidizer. Harmful if swallowed. Causes severe skin burns and eye damage. May

cause damage to organs (Liver) through prolonged or repeated exposure by ingestion. Very toxic

Category 1

to aquatic life with long lasting effects.

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Precautionary statement

Prevention Keep away from heat. Keep/Store away from clothing and other combustible materials. Take any

precaution to avoid mixing with combustibles. Do not breathe dust. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling. Avoid release to the environment.

In case of fire: Use water for extinction. If swallowed: Rinse mouth. Do NOT induce vomiting. If on Response

skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Get medical advice/attention if you feel

unwell. Wash contaminated clothing before reuse. Collect spillage.

Storage Store locked up.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Substances

Chemical name	me Common name and		%			
synonyms						
Potassium permanganate		7722-64-7	> 97.5			

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. For breathing

difficulties, oxygen may be necessary. Get medical attention immediately.

Skin contact

Take off immediately all contaminated clothing. Immediately flush skin with plenty of water. Get medical attention immediately. Wash contaminated clothing before reuse.

Contact with skin may leave a brown stain of insoluble manganese dioxide. This can be easily removed by washing with a mixture of equal volume of household vinegar and 3% hydrogen

peroxide, followed by washing with soap and water.

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open Eye contact

eyelids wide apart. Continue rinsing. Get medical attention immediately.

Ingestion Immediately rinse mouth and drink plenty of water. Never give anything by mouth to a victim who is

unconscious or is having convulsions. Do not induce vomiting, If vomiting occurs, keep head low

Contact with this material will cause burns to the skin, eyes and mucous membranes. Permanent

so that stomach content doesn't get into the lungs. Get medical attention immediately.

Most important symptoms/effects, acute and delayed

eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Decomposition products are alkaline. Brown stain is insoluble manganese dioxide.

General information

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. For personal protection, see Section 8 of the SDS. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Flood with water from a distance, water spray or fog.

The following extinguishing media are ineffective: Dry chemical. Foam. Carbon dioxide (CO2). Halogenated materials.

Specific hazards arising from the chemical

May intensify fire: oxidizer, May ignite combustibles (wood, paper, oil, clothing, etc.). Contact with incompatible materials or heat (135 °C / 275 °F) could result in violent exothermic chemical reaction. Oxidizing agent, may cause spontaneous ignition of combustible materials. By heating and fire, corrosive vapors/gases may be formed. During fire, gases hazardous to health may be formed such as: Carbon oxides (COx). Metal oxides.

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Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Fire fighting equipment/instructions

Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Dike fire control water for later disposal. Water runoff can cause environmental damage.

General fire hazards

The product is not flammable. May intensify fire; oxidizer. May ignite combustibles (wood, paper, oil, clothing, etc.). Contact with incompatible materials or heat (135 °C / 275 °F) could result in violent exothermic chemical reaction.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep upwind. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Keep combustibles (wood, paper, oil, etc.) away from spilled material. Should not be released into the environment. This product is miscible in water. Stop leak if possible without any risk. Dike the spilled material, where this is possible. Clean up spills immediately by sweeping or shoveling up the material. Do not return spilled material to the original container; transfer to a clean metal or plastic drum. To clean up potassium permanganate solutions, follow either of the following two options:

Option # 1: Dilute to approximately 6% with water, and then reduce with sodium thiosulfate, a bisulfite or ferrous salt solution. The bisulfite or ferrous salt may require some dilute sulfuric acid (10% w/w) to promote reduction. Neutralize with sodium carbonate to neutral pH, if acid was used. Decant or filter and deposit sludge in approved landfill. Where permitted, the sludge may be drained into sewer with large quantities of water.

Option # 2: Absorb with inert media like diatomaceous earth or inert floor dry, collect into a drum and dispose of properly. Do not use saw dust or other incompatible media. Disposal of all materials shall be in full and strict compliance with all federal, state, and local regulations pertaining to permanganates.

To clean contaminated floors, flush with abundant quantities of water into sewer, if permitted by federal, state, and local regulations. If not, collect water and treat as described above.

Environmental precautions

Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS. Do not allow to enter drains, sewers or watercourses. Contact local authorities in case of spillage to drain/aquatic environment.

7. Handling and storage

Precautions for safe handling

Take any precaution to avoid mixing with combustibles. Do not get this material in your eyes, on your skin, or on your clothing. Do not breathe dust or mist or vapor of the solution. Use personal protection as recommended in Section 8 of the SDS. If clothing becomes contaminated, remove and wash off immediately. When using, do not eat, drink or smoke. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep container tightly closed and in a well-ventilated place. Store in a cool, dry place. Store away from incompatible materials (See Section 10). Store in accordance with local/regional/national/international regulation.

Value

8. Exposure controls/personal protection

Occupational exposure limits

Components

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

Components	туре	value	
Potassium permanganate (CAS 7722-64-7)	Ceiling	5 mg/m3	
US. ACGIH Threshold Limit Values Material	Туре	Value	Form
CAIROX® potassium permanganate	TWA	0.1 mg/m3	Inhalable fraction.
		0.02 mg/m3	Respirable fraction.

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US. ACGIH Threshold Limit Values					
Components	Туре	Value	Form		
Potassium permanganate (CAS 7722-64-7)	TWA	0.1 mg/m3	Inhalable fraction.		
		0.02 mg/m3	Respirable fraction.		
US. NIOSH: Pocket Guide to Che	mical Hazards				
Material	Туре	Value	Form		
CAIROX® potassium permanganate	TWA	1 mg/m3	Fume.		
Components	Type	Value	Form		
Potassium permanganate (CAS 7722-64-7)	STEL	3 mg/m3	Fume.		
	TWA	1 mg/m3	Fume.		

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

Follow standard monitoring procedures.

Appropriate engineering controls

Provide adequate general and local exhaust ventilation. An eye wash and safety shower must be

available in the immediate work area.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Wear face shield if there is risk of splashes. Eye/face protection

Skin protection

Wear chemical-resistant, impervious gloves. Use protective gloves made of: Rubber or plastic. **Hand protection**

Suitable gloves can be recommended by the glove supplier.

Skin protection

Other

Wear appropriate chemical resistant clothing. Rubber or plastic apron.

Respiratory protection

In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.

Measurement Element: Manganese (Mn)

Any particulate respirator equipped with an N95, R95, or P95 filter (including N95, R95, and P95 filtering facepieces) except quarter-mask respirators. The following filters may also be used: N99, R99, P99, N100, R100 or P100.

Any supplied-air respirator.

25 ma/m3

Any supplied-air respirator operated in a continuous-flow mode.

Any powered, air-purifying respirator with a high-efficiency particulate filter.

50 ma/m3

Any air-purifying, full-face piece respirator equipped with an N100, R100, or P100 filter.

Any supplied-air respirator with a tight-fitting face piece that is operated in a continuous-flow mode. Any powered, air-purifying respirator with a tight-fitting face piece and a high-efficiency particulate

Any self-contained breathing apparatus with a full face piece.

Any supplied-air respirator with a full face piece.

500 mg/m3

Any supplied-air respirator operated in a pressure-demand or other positive-pressure mode.

Emergency or planned entry into unknown concentrations or IDLH conditions -Any self-contained breathing apparatus that has a full face piece and is operated in a pressure-demand or other positive-pressure mode.

Any air-purifying, full-face piece respirator equipped with an N100, R100, or P100 filter.

Any appropriate escape-type, self-contained breathing apparatus.

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Thermal hazards

When using, do not eat, drink or smoke. Keep from contact with clothing and other combustible materials. Remove and wash contaminated clothing promptly. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

CAIROX® potassium permanganate

9. Physical and chemical properties

Appearance Dark purple solid with metallic luster.

Physical state Solid.
Form Solid.
Color Dark purple.
Odor Odorless.
Odor threshold Not available.
pH Not applicable

Melting point/freezing point Starts to decompose with evolution of oxygen (O2) at temperatures above 150 °C. Once initiated,

the decomposition is exothermic and self sustaining.

Initial boiling point and boiling

range

Not applicable.

Flash point Not applicable.

Evaporation rate Not applicable.

Flammability (solid, gas) Non flammable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not applicable.

Flammability limit - upper

(%)

Not applicable.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not applicable.

Vapor density Not applicable.

Relative density 2.7 (20 °C) (Water = 1)

Solubility(ies)

Solubility (water) 6 % (20 °C)

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature 464 °F (240 °C)

Viscosity Not applicable.

Other information

Density 2.70 g/cm3

Explosive properties Not explosive. Can explode in contact with sulfuric acid, peroxides and metal powders.

Molecular formulaH-Mn-O4.KMolecular weight158.03 g/mol

Oxidizing properties Strong oxidizing agent.

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Stable at normal conditions.

Possibility of hazardous

Conditions to avoid

reactions

Contact with combustible material may cause fire. Can explode in contact with sulfuric acid, peroxides and metal powders. Starts to decompose with evolution of oxygen (O2) at temperatures above 150 °C. Once initiated, the decomposition is exothermic and self sustaining.

Contact with incompatible materials or heat (135 °C / 275 °F) could result in violent exothermic

contact with incompatible materials of fleat (133 G / 273 T) could result in viol

chemical reaction.

hydrochloric acid liberates chlorine gas.

Hazardous decomposition

products

By heating and fire, corrosive vapors/gases may be formed.

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11. Toxicological information

Information on likely routes of exposure

InhalationMay cause respiratory irritation.Skin contactCauses severe skin burns.Eye contactCauses serious eye damage.

Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Contact with this material will cause burns to the skin, eyes and mucous membranes. Permanent

eye damage including blindness could result.

Information on toxicological effects

Acute toxicity Harmful if swallowed.

Components Species Test Results

Potassium permanganate (CAS 7722-64-7)

<u>Acute</u>

Dermal

LD50 Rat 2000 mg/kg

Oral

LD50 Rat 2000 mg/kg

Skin corrosion/irritation Causes severe skin burns.

Serious eye damage/eye Causes serious eye damage.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not classified.
Skin sensitization Not classified.
Germ cell mutagenicity Not classified.
Carcinogenicity Not classified.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Reproductive toxicity Not classified.

Specific target organ toxicity - Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

May cause damage to organs (Liver) through prolonged or repeated exposure by ingestion.

Aspiration hazard Not classified.

Chronic effects May cause damage to respiratory system. Prolonged exposure, usually over many years, to

manganese oxide fume/dust can lead to chronic manganese poisoning, chiefly affecting the

central nervous system.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Components

Potassium permanganate (CAS 7722-64-7)

Aquatic

Fish

LC50

Bluegill (Lepomis macrochirus)

2.7 mg/l, 96 hours static

2.3 mg/l, 96 hours flow through

2.3 mg/l, 96 hours

1.8 - 5.6 mg/l

Carp (Cyprinus carpio)

3.16 - 3.77 mg/l, 96 hours

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Components **Species Test Results** 2.97 - 3.11 mg/l, 96 hours Goldfish (Carassius auratus) 3.3 - 3.93 mg/l, 96 hours static Milkfish, salmon-herring (Chanos > 1.4 mg/l, 96 hours chanos) Rainbow trout (Oncorhynchus mykiss) 1.8 mg/l, 96 hours

Persistence and degradability

Expected to be readily converted by oxidizable materials to insoluble manganese oxide.

Bioaccumulative potential

Potential to bioaccumulate is low.

Mobility in soil

The product is miscible with water. May spread in water systems.

Other adverse effects None known.

13. Disposal considerations

Disposal instructions

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

1.08 - 1.38 mg/l, 96 hours 0.77 - 1.27 mg/l, 96 hours

Hazardous waste code

D001: Ignitable waste

The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Do not allow this material to drain into sewers/water supplies.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Rinse container at least three times to an absence of pink color before disposing. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number UN1490

UN proper shipping name

Transport hazard class(es)

Potassium permanganate

Class 5.1 Subsidiary risk 5.1 Label(s) Packing group Ш

Environmental hazards

Marine pollutant Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB8, IP2, IP4, T3, TP33

Packaging exceptions 152 212 Packaging non bulk Packaging bulk 240

IATA

UN1490 **UN** number

Potassium permanganate **UN proper shipping name**

Transport hazard class(es)

Class 5.1 Subsidiary risk Ш Packing group **Environmental hazards** Yes **ERG Code** 5L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN1490

UN proper shipping name Transport hazard class(es)

POTASSIUM PERMANGANATE

5.1 Class Subsidiary risk П Packing group

Environmental hazards

Marine pollutant Yes F-H, S-Q **EmS**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

General information IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

Drug Enforcement Administration (DEA) (21 CFR 1310.02 (b) 8: List II chemical.

Department of Homeland Security (DHS) Chemical Facility Anti-Terrorism Standards (6 CFR 27,

Appendix A): Listed.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Potassium permanganate (CAS 7722-64-7) Listed.

SARA 304 Emergency release notification

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Classified hazard Oxidizer (liquid, solid, or gas)

Acute toxicity (any route of exposure) categories

Skin corrosion or irritation

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Chemical name **CAS** number % by wt. Potassium permanganate 7722-64-7 > 97.5

Other federal regulations

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

Potassium permanganate (CAS 7722-64-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Water Act (CWA)

Hazardous substance

Section 112(r) (40 CFR

68.130)

Safe Drinking Water Act Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

Potassium permanganate (CAS 7722-64-7) 6579

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Potassium permanganate (CAS 7722-64-7) 15 %WT

DEA Exempt Chemical Mixtures Code Number

6579 Potassium permanganate (CAS 7722-64-7)

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This product does not contain a chemical known to the State of California to cause cancer, birth

defects or other reproductive harm.

California OSH Hazardous Substance List: Listed.

US. Massachusetts RTK - Substance List

Potassium permanganate (CAS 7722-64-7)

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

Potassium permanganate (CAS 7722-64-7)

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

Inventory name

Potassium permanganate (CAS 7722-64-7)

US. Rhode Island RTK

Not regulated.

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region

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Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

Taiwan Chemical Substance Inventory (TCSI)

Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

Issue date27-November-2013Revision date24-April-2018

Version # 04

United States & Puerto Rico

Health: 3 Flammability: 0

Physical hazard: 1

NFPA ratings

HMIS® ratings

Taiwan



List of abbreviations

GHS: Globally Harmonized System of Classification and Labeling of hazardous properties of

Chemicals.

TWA: Time weighted average.

LD50: Lethal Dose, 50%.

LC50: Lethal Concentration, 50%.

IMDG: International Maritime Dangerous Goods. IATA: International Air Transport Association.

MARPOL: International Convention for the Prevention of Pollution from Ships.

CAIROX® potassium permanganate

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On inventory (yes/no)*

Yes

Yes

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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

References

HSDB® - Hazardous Substances Data Bank

Registry of Toxic Effects of Chemical Substances (RTECS) IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

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