SAFETY DATA SHEET
SafeGard CC-3400

Section 1 – Identification

GHS product identifier : **SafeGard CC-3400**
Product Code : **5162-S**
Other means of identification : **Not available**
Product type : **liquid**

Relevant indentified areas of uses of the substance of mixture and uses advised against
Identified uses: Protective coating

Uses advised against: Not available **Reason:**

Supplier's details : **Sanchem Inc**
1600 S. Canal St
Chicago, IL 60616

Emergency Telephone Number: **24 hr. Chemtrec 1-800-424-9300**

Section 2 – Hazard identification

GHS Classification Not classified as dangerous for supply/use.
EC Classification Not classified as dangerous for supply/use.
Hazards summary Alkaline. May cause irritation to skin and eyes. Caution - spillages may be slippery. Dries to form glass film which can easily cut skin.
Hazard pictogram(s)
Signal word(s) None.
Hazard statement(s) None.

Precautionary statement(s)
EC Classification Not classified as dangerous for supply/use.
Hazard Symbol
Risk Phrases 22 8
Safety Phrases None
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Section 3 – Composition/information on ingredients

Substance/mixture : **Mixture**
Chemical Name : **Not available**
Other means of identification : **Not available**

Ingredient(s)	%W/W	CAS No.
Potassium Permanganate	6.00	7722-64-7

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

Section 4 – First aid measures

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Skin Contact: In case of contact, immediately flush skin with plenty of water, may cause skin irritation. Skin contact can cause brown stains in the area, and possible hardening of the outer skin layer. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5 – Fire-fighting measures

SECTION V - FIRE AND EXPLOSION HAZARD DATA

Flammability of the Product: Non-Flammable
Auto Ignition Temperature: Not Applicable
Flash Points: Not Applicable
Flammable Limits: Not Applicable
Products of Combustion: Not Available
Fire Hazards in Presence of Various Substances: Not Applicable
Explosion Hazards in Presence of Various Substances:
Non-explosive in presence of open flames and sparks, of shocks.
Fire Fighting Media and Instructions: Not Applicable

If water is burned off the following applies:

Special Remarks on Fire Hazards:
Spontaneously flammable on contact with ethylene glycol. Potassium Permanganate being conveyed through propylene tube ignited the tube. When solid hydroxylamine is brought into contact with solid potassium permanganate, there is produced immediately a with flame. Potassium permanganate decomposes hydrogen trisulfide so rapidly that sufficient heat is liberated to ignite the trisulfide. When antimony or arsenic and solid potassium permanganate are ground together, the metals ignite. (Potassium Permanganate Crystal).

Special Remarks on Explosion Hazards: Take care in handling a explosions may occur if it is brought in contact with organic or other readily oxidizable substances, either in solution or in dry state. Explosive in contact with sulfuric acid or hydrogen peroxide. Potassium Permanganate + Acetic Acid or Acetic Anhydride can explode if Permanganate is not kept cold. Explosions can occur when Permanganates come on contact with Benzene, Carbon Disulfide, Diethyl Ether, Ethyl Alcohol, Petroleum or Oganic matter. Contact with Glycerol may produce explosion. Crystals of potassium permanganate explode vigorously when ground with phosphorous.
A mixture of .5% potassium permanganate + ammonium nitrate explosive caused an explosion 7 hrs. later.

During a preparation of chlorine by addition of the concentrated acid (Hydrochloric acid) to solid potassium permanganate, a sharp explosion occurred on one occasion. (Potassium permanganate crystal)

Section 6 – Accidental release measures

Small Spill: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7 – Handling and storage

Precautions: Do not breathe gas/fumes/vapors/spray. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8 – Exposure controls/personal protection

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Personal Protection: Splash goggles. Lab coat. Gloves

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not Available

Section 9 – Physical and chemical properties

Physical state and appearance:	Liquid
Odor:	Not Available
Taste:	Not Available
Molecular Weight:	Not Available
Color:	Purple
PH(1%soln/water):	Neutral
Boiling Point:	The lowest known value is 100°C (212°F) (Water)
Melting Point:	Not Available
Critical Temperature:	Not Available
Specific Gravity:	The only known value is 1 (Water = 1) (Water)
Vapor Pressure:	The highest known value is 2.3 kPa *(a).* 20°C) (Water).
Vapor Density:	The highest know value is 0.62 (Air = 1) (Water)
Volatility:	Not Available
Odor Threshold:	Not Available
Water/Oil Dist. Coeff.:	Not Available
lonicity (in Water):	Not Available
Dispersion Properties:	See solubility in water, methanol, acetone
Solubility:	Easily soluble in cold water, hot water, methanol, and acetone

Section 10 – Stability and reactivity

Stability:	The product is stable
Instability Temperature:	Not Available
Conditions of Instability:	Incompatible Materials
Incompatibility with various substances:	Not Available
Corrosive:	Not Available

Special Remarks on Reactivity:

It is a powerful oxidizing agent. Incompatible with reducing agents, acids, formaldehyde, ammonium nitrate, dimethylformamide, glycerol, combustible materials, alcohols, arsenates, bromides, iodides, charcoal, organic substances, ferrous or mercurous slats, hypophosphites, hyposulfite, sulfites, peroxides, oxalates, ethylene glycol. Manganese salts in air oxidize the toxic sulfur dioxide to more toxi sulfur trioxide. Can react violently with most metal powders, ammonia, ammonium salts, phosphorous, many finely divided organic compounds (materials), flammable liquids, acids, sulfur. (Potassium permanganate crystal)

Section 11 – Toxicological information

Routes of Entry: Absorbed through skin. Eye Contact
Toxicity to Animals:
LD50: Not Available
LC50: Not Available
Chronic Effects on Humans: Not Available

Other Toxic Effects on Humans:
Hazardous in case of skin contact (irritant).
Slightly hazardous in case of skin contact (permeator), of ingestion.

Special Remarks on Toxicity to Animals: Not Available

Special Remarks on Chronic Effects on Humans:
May cause adverse reproductive effects (Male and Female fertility) based on animal data. May affect genetic material (mutaeenetic based on animal data. (Potassium permanganate)
Acute Potential Health Effects:

Skin:	Causes skin irritation
Eyes:	Causes eye irritation.
Inhalation:	Inhalation of mist or vapor may cause respiratory tract irritation.
Ingestion:	May cause digestive/gastrointestinal tract irritation with nausea, vomiting, This solution contains Potassium Permanganate which may affect respiration (Hypoxia \, dyspnea), cardiovascular system (hypertension, hypotension, tachycardia), liver (hepatitis, jaundice, hepatocellular necrosis), blood (methemoglobinemia), urinary system (renal failure, albuminuria, hematuria, proteinuria), behavior/central nervous system (somnolence, headache, dizziness, trem paresthesia, fatigue)

Chronic Acute Potential Helath Effects:

Ingestion:	It may affect the central nervous system. It may also affect the liver and kidneys.
Skin:	Repeated prolonged contact may cause dermatitis

Section 12 – Ecological information

Ecotoxicity: Not Available
BODS and COD: Not Available

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, Long term degradation products may arise.

Toxicity of the Products of Biodegradation: Not Available
Special Remarks on the Products of Biodegradation: Not Available

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Section 13 –Disposal considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14 – Transportation Information

UN number	Not classified according to the U.N. Recommendations on the Transport of Dangerous Goods'.
Proper Shipping Name	Not applicable.
Transport hazard class(es)	Not applicable.
Packing group	Not applicable.
Environmental hazards	Not classified as a Marine Pollutant.

Section 15 – Regulatory information

Federal and State Regulations:

Connecticut carcinogen reporting list:	Potassium permanganate
Illinois toxic substances disclosure to employee act:	Potassium permanganate
Illinois chemical safety act:	Potassium permanganate
New York release reporting list:	Potassium permanganate
Rhode Island RTK:	Potassium permanganate
Pennsylvania RTK:	Potassium permanganate
Massachusetts RTK:	Potassium permanganate
Massachusetts spill list:	Potassium permanganate
New Jersey:	Potassium permanganate
New Jersey spill list:	Potassium permanganate
Louisiana spill reporting:	Potassium permanganate
California Director's List of Hazardous Substances:	Potassium permanganate
TSCA 8(b) inventory:	Potassium permanganate; Water
CERCLA: Hazardous substances:	Potassium permanganate 100 Lbs (45.36 kg):

Other Regulations: Not Available

Other Classifications:

WHMIS (Canada) CLASS D-2B: Material causing other toxic effects (TOXIC)

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 0

Reactivity: 0

Personal Protection: J National Fire Protection Association (U.S.A.)

Health: 2

Flammability: 0

Reactivity: 0

Specific Hazard:

Protective Equipment: Gloves, Lab Coat, Wear appropriate respirator when ventilation is inadequate and Splash goggles.

Section 16 – Other information

HMIS (NFPA) **H: 1 F: 0 R: 0**

References: Not Available

Other Special Considerations: Not Available

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Precautionary statement(s)