

# SAFETY DATA SHEET

## SafeGard CC-3400

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### Section 1 – Identification

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

Relevant identified 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

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### Section 2 – Hazard identification

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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

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

<u>Ingredient(s)</u>	<u>%W/W</u>	<u>CAS No.</u>
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.

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### Section 4 – First aid measures

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**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.

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## Section 5 – Fire-fighting measures

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### 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 Organic 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)

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## Section 6 – Accidental release measures

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**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.

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## Section 7 – Handling and storage

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**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.

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## Section 8 – Exposure controls/personal protection

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**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

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## Section 9 – Physical and chemical properties

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**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

**Ionicity (in Water):** Not Available

**Dispersion Properties:** See solubility in water, methanol, acetone

**Solubility:** Easily soluble in cold water, hot water, methanol, and acetone

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## Section 10 – Stability and reactivity

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**Stability:** The product is stable

**Instability Temperature:** Not Available

**Conditions of Instability:** Incompatible Materials

**Incompatibility with various substances:** Not Available

**Corrosive:** Not Available

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### 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 salts, hypophosphites, hyposulfite, sulfites, peroxides, oxalates, ethylene glycol. Manganese salts in air oxidize the toxic sulfur dioxide to more toxic 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)

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## Section 11 – Toxicological information

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**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 (mutagenic 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 Health Effects:

Ingestion: It may affect the central nervous system. It may also affect the liver and kidneys.

Skin: Repeated prolonged contact may cause dermatitis

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## Section 12 – Ecological information

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**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

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**Waste Disposal:**

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

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## Section 14 – Transportation Information

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UN number	Not classified according to the U.N. Recommendations on the Transport of Dangerous Goods <sup>1</sup> .
Proper Shipping Name	Not applicable.
Transport hazard class(es)	Not applicable.
Packing group	Not applicable.
Environmental hazards	Not classified as a Marine Pollutant.

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## Section 15 – Regulatory information

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### 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.

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## Section 16 – Other information

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**References:** Not Available

**Other Special Considerations:** Not Available

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**Version : 1**

### Precautionary statement(s)

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