

SAFETY DATA SHEET

SafeGard CC 3400A

Section 1 – Identification

GHS product identifier : SafeGard CC-3400A
Product Code : 5159-C
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: Metal cleaner & surface activator

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

OSHA/HCS status

GHS Classification

Oxidizing Liquids- Category 3
Skin Corrosion/Irritation- Category 2
Serious Eye Damage/Eye Irritation- Category 2
Skin Corr. 1B

Signal Word - WARNING

Hazard Statements: May intensify fire, oxidizer.
Causes skin irritation.
Causes serious eye irritation.

Precautionary Statements Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep/Store away from clothing and combustible materials. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. P332+P313: If skin irritation occurs: Get medical advice/attention. Specific treatment (see label). In case of fire: Use appropriate media for extinction.

Storage Store locked up.

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

Section 3 – Composition / Information on Ingredients

| CAS# | Component | Percent |
|-----------|------------------------------|---------|
| 7784-27-2 | Aluminum nitrate nonahydrate | 60 |
| | | |

Component Related Regulatory Information: This product may be regulated, have exposure limits or other information identified as the following: Nitrates, inorganic, n.o.s., Water Dissociable Nitrate Compounds, Aluminum, soluble salts.

Component Information/Information on Non-Hazardous Components

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

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

| | |
|----------------------------|---|
| <u>General</u> | This material is an acid, provide general supportive measures and treat symptomatically. |
| <u>Eye contact</u> | In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. Have contaminated individual "roll" their eyes. Seek immediate medical attention. |
| <u>Skin contact</u> | Immediately take off all contaminated clothing. For skin contact, flush with large amounts of water. If irritation persists, get medical attention. |
| <u>Inhalation</u> | Move person to non-contaminated air. Call a physician if symptoms develop or persist. |
| <u>Ingestion</u> | Do not induce vomiting. Call a physician immediately. |

Section 5 – Fire-fighting measures

| | |
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| General Fire Hazards | This product is an aqueous mixture, which will not burn. If evaporated to dryness, the solid residue may pose a slight fire hazard. This product is an oxidizing agent, which may cause spontaneous ignition of combustible materials. |
| Hazardous Combustion Products: | Decomposition of this product may produce acrid vapors, aluminum compounds, and oxides of nitrogen. |
| Extinguishing Media | Use any media suitable for the surrounding fires. |
| Fire Fighting Equipment/Instructions: | Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products. |
| NFPA Ratings: Health: 2 Fire: 0 Reactivity: 0 | |
| Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe | |

Section 6 – Accidental release measures

| | |
|--------------------------------|--|
| Containment Procedures: | Stop the flow of material, if this is without risk. Wear appropriate protective equipment and clothing during clean up. Contain the discharged material and dike the spilled material where possible. Prevent entry into sewers, drains, underground or confined spaces, water intakes and waterways. Avoid contact with combustible material. |
| Clean-Up Procedures: | Absorb spill with inert material. Shovel material into appropriate container for disposal. |
| Evacuation Procedures: | Isolate area. Keep unnecessary personnel away. |
| Special Procedures: | Follow all Local, State, Federal and Provincial regulations for disposal. |

Section 7 – Handling and storage

Do not get this material in your eyes, on your skin, or on your clothing. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. Do not eat, drink or use tobacco products when handling this material. Use this product with adequate ventilation. Launder work clothes frequently. See Section 8 for appropriate protective clothing, equipment and air monitoring procedures.

Open containers slowly, on a stable surface. Containers of this product must be properly labeled. Empty containers may contain residual liquid or vapors. Empty containers should be handled with care.

Storage Procedures: Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Store away from incompatible materials (see SECTION 10: Stability and Reactivity). Material should be stored in secondary containers, or in a diked area, as appropriate. Keep container tightly closed when not in use. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.

Section 8 – Exposure controls/personal protection

Component Exposure Limits

Aluminum nitrate nonahydrate (7784-27-2)

ACGIH: 2 mg/m³ TWA (as Al) (related to Aluminum, soluble salts)

OSHA: 2 mg/m³ TWA (as Al. Listed under 'Aluminum') (related to Aluminum, soluble salts) Vacated: NIOSH: 2 mg/m³ TWA (as Al) (related to Aluminum (soluble salts))

Engineering Controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment:

Eyes/Face Wear safety glasses; chemical goggles (if splashing is possible).

Personal Protective Equipment: Skin Use impervious gloves. Use of an impervious apron is recommended.

Personal Protective Equipment: Respiratory

Respiratory protection; not normally required for ambient air concentrations not exceeding the Occupational Exposure Limit. When respiratory protection is required, wear a NIOSH/MSHA approved self-contained breathing apparatus with full-face piece operated in a positive-pressure mode. If ventilation is not sufficient to effectively prevent buildup of vapors or mists, appropriate approved NIOSH respiratory protection must be provided (i.e. air-purifying respirator with an ammonia cartridge).

Respirators should be selected by and used under the direction of a trained health and safety professional following the requirements found in OSHA's respirator standard (29 CFR 1901.134) and ANSI's standard for respiratory protection (Z88.2-1992), applicable U.S. regulations, or the Canadian CSA Standard Z94.4-93 and applicable standards of Canadian Provinces. A written respiratory protection program, including provisions for medical certification, training, fit-testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage, must be implemented.

Personal Protective Equipment: General Eyewash fountains and emergency showers are required.

Section 9 – Physical and chemical properties

| | | | |
|-------------------------------------|-----------------------------|-------------------------------------|-----------------|
| Appearance: | Colorless to slightly green | Odor: | Odorless |
| Physical State: | Liquid | Vapor Density: | Not Applicable |
| Vapor Pressure: | Not applicable | pH: | 0-2 |
| Boiling Point: | ~100°C (212°F) | Solubility (H₂O): | Soluble |
| Method Used: | Not Applicable | Melting Point: | Not Established |
| Lower Flammable Limit (LFL): | Not Applicable | Flash Point: | Not Flammable |
| Upper Flammable Limit (UFL): | Not Applicable | Auto Ignition: | Not Available |
| Flammability Classification: | Not Applicable | Rate of Burning: | Not Applicable |
| Specific Gravity: | 1.30 @ 4°C (39.2T), water=1 | | |

Section 10 – Stability and reactivity

| | |
|--|--|
| Chemical Stability | Stable under normal conditions. |
| Chemical Stability: Conditions to Avoid | Avoid exposure to extreme temperatures, contact with incompatible chemicals, and all contact with combustible materials. |
| Incompatibility | Flammable and combustible materials, strong reducing agents, finely powdered metals, strong acids. |
| Hazardous Decomposition: | Aluminum compounds and nitrogen oxides. |
| Hazardous Polymerization: | Will not occur. |

Section 11 – Toxicological information

Acute and Chronic Toxicity

A: General Product Information: This product is moderately to severely irritating to contaminated tissue.

B: Component Analysis - LD50/LC50

Aluminum nitrate nonahydrate (7784-27-2) Oral LD50 Rat: 3671 mg/kg

Carcinogenicity

A: General Product Information: No carcinogenicity data available for this product.

B: Component Carcinogenicity:

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Section 12 – Ecological information

A: General Product Information

In high concentrations, this product may be dangerous to aquatic life and fouling to shorelines.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity: No ecotoxicity data are available for this product's components

Environmental Fate No information available for the product.

Section 13 –Disposal considerations

US EPA Waste Number & Descriptions

A: General Product Information: Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes. As packaged this product is a D001 ignitable waste [40 CFR 261.21 (a)(4)]; applicable to wastes consisting only of this product.

B: Component Waste Numbers: No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations

Section 14 –Transportation information

US DOT Information

Shipping Name: Corrosive Liquids, Oxidizing, nos
UN/NA#: UN3093 **Hazard Class:** 8 (5.1) **Packing Group:** II
Required Label(s): Corrosive liquids, Oxidizer

Canada Transportation of Dangerous Goods Information

Shipping Name: Corrosive Liquids, Oxidizing, nos
UN/NA#: UN3093 **Hazard Class:** 8 (5.1) **Packing Group:** II
Required Label(s): Corrosive liquids, Oxidizer

Section 15 – Regulatory information

US Federal Regulations

A: General Product Information : Components of this product have been checked against the non-confidential TSCA inventory by CAS Registry Number. Components not identified on this non-confidential inventory are exempt from listing (i.e. as polymers) or are listed on the confidential inventory as declared by the supplier.

B: Component Analysis: This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4). **Aluminum nitrate nonahydrate (7784-27-2)**

SARA 313: 1.0 % de minimis concentration (Chemical Category N511) (related to Water Dissociable Nitrate Compounds)

C: Federal Insecticide, Fungicide, and Rodenticide Act: No information is available.

State Regulations

A: General Product Information

Other state regulations may apply. Check individual state requirements. **B: Component Analysis - State**

The following components appear on one or more of the following state hazardous substances lists:

| Component | CAS | CA | MA | MN | NJ | PA | RI |
|---|-----------|------------------|----|------------------|----|------------------|----|
| Aluminum nitrate nonahydrate (related to Aluminum, soluble salts) | 7784-27-2 | Yes ¹ | No | Yes ¹ | No | Yes ¹ | No |

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

| Component | CAS# | Minimum Concentration |
|------------------------------|-----------|---|
| Aluminum nitrate nonahydrate | 7784-27-2 | 1 % (English Item 53, French Item 198) (related to Aluminum, water-soluble salts, n.o.s.) |

WHMIS Classification: C, D2B

Additional Regulatory Information A: General Product InformationNo additional information available. **B: Component Analysis - Inventory**

| Component | CAS# | TSCA | DSL | NDSL | EINECS | AUST | MITI | PHIL | KOREA | ELINCS | CHINA |
|------------------------------|-----------|------|-----|------|--------|------|------|------|-------|--------|-------|
| Aluminum nitrate nonahydrate | 7784-27-2 | No | No | No | No | Yes | Yes | Yes | No | No | Yes |
| Water | 7732-18-5 | Yes | Yes | No | Yes | Yes | Yes | No | Yes | No | Yes |

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation and the MSDS contains all the information required by the Canadian Controlled Products Regulation.

Refer to Section 11 for OSHA/HPA Hazardous Chemical(s) and Section 13 for RCRA classification.

Section 16 – Other information

History**Date of issue/Date of revision** : 7-17-2015**Version** : 1

H-Health : 2

Flammability : 0

Physical Hazards : 0

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.