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|--|---|
| Manufacturer: Black Swan Mfg. Co. 4540 W. Thomas St. Chicago, IL 60651-3318 Tel.: 800-252-5796 Fax: 773-227-3705 Web Site : www.blackswanmfg.com E-mail : info@blackswanmfg.com | For any Transportation or Medical Chemical Emergencies call: <p style="text-align: center;">INFOTRAC</p> <p style="text-align: center;">(800) 535-5053 OR (352) 323-3500</p> <p style="text-align: center;">24 hours per day - 7 days a week</p> |
| Product Name: Garbage Disposal Cleaner | Recommended Use: A powdered product that can be easily sprinkled into any garbage disposal unit to clean and sanitize. |

SECTION 2 – HAZARD(S) IDENTIFICATION

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|--|--|---|--------------|---|------------|---|---|---|---|---|--|---|--|------------------------------------|--|
| <p>Labels</p>  <p>Irritant</p> <hr/> <p>Signal Word</p> <p>Warning</p> <hr/> <p>HMIS</p> <table border="1" style="width: 100%;"> <tr><td style="background-color: #000080; color: white;">HEALTH</td><td style="background-color: #000080; color: white; text-align: center;">2</td></tr> <tr><td style="background-color: #FF0000; color: white;">FLAMMABILITY</td><td style="background-color: #FF0000; color: white; text-align: center;">0</td></tr> <tr><td style="background-color: #FFD700; color: black;">REACTIVITY</td><td style="background-color: #FFD700; color: black; text-align: center;">0</td></tr> </table> | HEALTH | 2 | FLAMMABILITY | 0 | REACTIVITY | 0 | <p>NFPA</p> <table border="1" style="margin: auto;"> <tr><td style="background-color: #000080; color: white;">2</td><td style="background-color: #FF0000; color: white;">0</td><td style="background-color: #FFD700; color: black;">0</td></tr> </table> <p>HEALTH HAZARD 4 – Deadly 3 – Extreme Danger 2 – Hazardous 1 – Slight Hazardous 0 – Normal Material</p> <p>SPECIFIC HAZARD Oxidizer OX Acid ACID Alkali ALK Corrosive COR Use NO WATER  Radioactive </p> <p>FIRE HAZARD Flash Points 4 – Below 73°F 3 – Below 100°F 2 – Above 100°F, Not exceeding 200°F 1 – Above 200°F 0 – Will not burn</p> <p>REACTIVITY 4 – May detonate 3 – Shock and heat may detonate 2 – Violent chemical change 1 – Unstable if heated 0 – Stable</p> | 2 | 0 | 0 | <p>GHS Classification</p> <table border="1" style="width: 100%;"> <tr> <td style="vertical-align: top;"> <p>Health</p> <p>Acute Toxicity: Not Established Skin Irritation: Not Established Eye Irritation: Not Established Skin Sensitization: No</p> </td> <td style="vertical-align: top;"> <p>Environmental</p> <p>Acute Aquatic Toxicity: Not Established Chronic Aquatic Toxicity: Not Established</p> </td> </tr> <tr> <td colspan="2" style="text-align: center;"> <p>Physical</p> <p>None</p> </td> </tr> </table> | <p>Health</p> <p>Acute Toxicity: Not Established Skin Irritation: Not Established Eye Irritation: Not Established Skin Sensitization: No</p> | <p>Environmental</p> <p>Acute Aquatic Toxicity: Not Established Chronic Aquatic Toxicity: Not Established</p> | <p>Physical</p> <p>None</p> | |
| HEALTH | 2 | | | | | | | | | | | | | | |
| FLAMMABILITY | 0 | | | | | | | | | | | | | | |
| REACTIVITY | 0 | | | | | | | | | | | | | | |
| 2 | 0 | 0 | | | | | | | | | | | | | |
| <p>Health</p> <p>Acute Toxicity: Not Established Skin Irritation: Not Established Eye Irritation: Not Established Skin Sensitization: No</p> | <p>Environmental</p> <p>Acute Aquatic Toxicity: Not Established Chronic Aquatic Toxicity: Not Established</p> | | | | | | | | | | | | | | |
| <p>Physical</p> <p>None</p> | | | | | | | | | | | | | | | |
| <p>Hazardous Statements</p> <p>H319: Causes serious eye irritation</p> | <p>Precautionary Statements</p> <p>P102: Keep out of reach of children P261: Avoid breathing dust P262: Do not get in eyes, on skin, or on clothing P264: Wash hands and exposed skin thoroughly after handling</p> | | | | | | | | | | | | | | |

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

| <u>Chemicals</u> | <u>CAS#</u> | <u>EINECS#</u> | <u>REACH</u> <u>Pre-registration Number</u> | <u>Approx %</u> |
|--------------------|-------------|----------------|--|-----------------|
| SODIUM BICARBONATE | 144-558-8 | 205-633-8 | N/A | 40-60% |
| CITRIC ACID | 77-92-9 | 201-069-1 | N/A | 20-40% |

*Unlisted ingredients are not classified as hazardous according to OSHA 1910.1200.

SECTION 4 – FIRST-AID MEASURES

Inhalation: Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do not use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Eyes: Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. Do NOT allow victim to rub or keep eyes closed.

Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cups of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Note to physician: Treat symptomatically.

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SECTION 5 – FIRE-FIGHTING MEASURES

Fire Hazard: Citric acid in sufficient quantity and reduced particle size is capable of creating a dust explosion.
Combustion Products: Irritating and highly toxic gases may be generated by thermal decomposition or combustion. If extremely large quantities are involved, significant levels of Carbon Dioxide may be generated.
Extinguishing Media: Water spray, Dry Chemical, Carbon Dioxide, Chemical Foam.
Unsuitable Extinguishing Media: Do not get water inside container.
Protective Equipment: Self-contained breathing apparatus {(SCBA), MSHA/NIOSH}. Full protective gear.
Special Fire Fighting Procedures: Evacuate enclosed areas, stay upwind. Wear self-contained breathing apparatus and protective clothing to prevent contact. Do not get water inside container.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Provide ventilation.
Protective Equipment: Use proper personal protective equipment as indicated in Section 8.
Emergency Procedures: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
Environmental Precautions: Avoid runoff into storm sewers, ditches and waterways.
Methods for Cleaning Up: Vacuum or sweep up material and place into a suitable disposal container. Very fine particles can cause a fire or explosion. Eliminate all ignition sources. Clean up spills immediately, observing precaution in the Protective Equipment section. Avoid generating dusty conditions. Spill may be neutralized with lime. Do not get water into container.

SECTION 7 – HANDLING AND STORAGE

| <u>Handling</u> | <u>Storage</u> |
|---|--|
| Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Do not allow contact with water. Keep from contact with moist air and steam. | Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible materials. Store protected from moisture. Keep out of direct sunlight. Never store in unlabeled containers. Incompatible Materials: Acids, aluminum and phosphoric-pent oxide, oxidizing agents, sulfides, metal nitrates, alkali carbonates, alkalis, potassium tartrate, acetates, bicarbonates. |

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

| <u>Hazardous Chemicals</u> | <u>Exposure Limits</u> | | |
|----------------------------|------------------------|-------------------|-----------------|
| | <u>ACGIH-TLV</u> | <u>ACGIH-STEL</u> | <u>OSHA-PEL</u> |
| SODIUM BICARBONATE | N/A | N/A | N/A |
| CITRIC ACID | N/A | N/A | N/A |

Engineering Controls: A source of running water to flush or wash the eyes and skin in case of contact. Use adequate ventilation to keep airborne concentrations low.
Ventilation: Mechanical ventilation is adequate.
Personal Protective Equipment – Respiratory: NIOSH/MSHA approved respirator where conditions may cause exposure limits to be exceeded from mists of solutions.
Personal Protective Equipment – Skin: Wear appropriate protective gloves/clothing to prevent skin exposure.
Personal Protective Equipment – Eyes: Safety eyeglasses with side shields or Chemical safety goggles

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

| | | | | | |
|------------------------|--------------------|--------------------------|-----------------|-----------------------------|-----------------------|
| Appearance: | Clear | Flash Point: | Not Established | Vapor Pressure: | Not Established |
| Odor: | Pleasantly Scented | Specific Gravity: | Not Established | Flammability: | Not Established |
| pH: | Not Established | Solubility (H2O): | Not Established | Flammability Limits: | LEL – Not Established |
| Melting Point: | Not Established | Evaporation Rate: | Not Established | | UEL – Not Established |
| Freezing Point: | Not Established | Vapor Density: | Not Established | | |
| Boiling Point: | Not Established | VOC: | Not Established | | |

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SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Conditions to avoid: Dust generation, moisture, exposure to moist air or water.

Incompatible materials: Acids, aluminum and phosphoric-pent oxide, oxidizing agents, sulfides, metal nitrates, alkali carbonates, alkalis, potassium tartrate, acetates, bicarbonates.

Hazardous decomposition products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide. When heated to decomposition, sodium bicarbonate produces carbon dioxide.

SECTION 11 – TOXICOLOGICAL INFORMATION

| <u>Hazardous Chemicals</u> | <u>Toxicity</u> | <u>LD₅₀</u> | <u>LC₅₀</u> |
|----------------------------|--|------------------------|------------------------|
| SODIUM BICARBONATE | Oral: 4220 mg/kg (rat); 3360 mg/kg (mouse) | | N/A |
| CITRIC ACID | 3 mg/kg (rat); 5040 mg/kg (mouse) | | N/A |

Likely Routes of Exposure: Inhalation, Skin, Eye and Ingestion.

Symptoms and Effect - Inhalation: Causes respiratory tract irritation. **Skin Contact:** Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon –re-exposure to this material. **Eye Contact:** Causes severe eye irritation and possible injury. **Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Excessive intake of citric acid may cause erosion of the teeth.

Long-Term Effect: None known.

Pre-Existing Conditions: None known.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: None known.

Persistence & Degradability: None known.

Bioaccumulative Potential: None known.

Mobility in soil: None known.

SECTION 13 – DISPOSAL CONSIDERATION

Dispose of product or container in accordance with federal, state or local regulations.

SECTION 14 – TRANSPORTATION INFORMATION

D.O.T. (U.S.): Not Regulated.

SECTION 15 – REGULATORY INFORMATION

Precautionary Label Information: Irritant.

Risk Phrases: R36-Irritating to eyes. R37-Irritating to respiratory system. R38-Irritating to skin.

Safety Phrases: S26-In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

SECTION 16 – OTHER INFORMATION

Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act and shall not be used for any other purpose. Black Swan Mfg. Co. urges the customers receiving this Material Safety Data Sheet to study it carefully to become aware of the hazards, if any, of the product involved. In the interest of safety, you should notify your employees, agents and contractors of the information on the sheets.

DATE: 01/01/2019