Material Safety Data Sheet
Sparkleen 1

Section 1 - Chemical Product and Company Identification

MSDS Name:
Sparkleen 1

Catalog Numbers:
04-320-4, 04-320-5, S701101

Synonyms:
FisherBrand Sparkleen 1 Detergent.

Company Identification:
Fisher Scientific - Fairlawn
One Reagent Lane
Fairlawn, NJ 07410

Company Phone Number:
(201) 796-7100

Emergency Phone Number:
(201) 796-7100

CHEMTREC Phone Number, US:
(800) 424-9300

CHEMTREC Phone Number, Europe:
(202) 483-7616

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
<th>EINECS/ELINCS</th>
<th>Hazard Symbols</th>
<th>Risk Phrases</th>
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</thead>
<tbody>
<tr>
<td>497-19-8</td>
<td>Sodium carbonate anhydrous</td>
<td>&lt; 30</td>
<td>207-838-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9016-45-9</td>
<td>Ethylene oxide-nonylphenol polymer</td>
<td>&lt; 10</td>
<td>Not available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25155-30-0</td>
<td>Sodium dodecylbenzenesulfonate</td>
<td>&lt; 10</td>
<td>246-680-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not available</td>
<td>Non-hazardous ingredients</td>
<td>&gt; 1</td>
<td>Not available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: White solid
Danger! Causes eye burns. Causes skin and respiratory tract irritation. May be harmful if swallowed.
Target Organs: Respiratory system, Eyes, Skin

Potential Health Effects
Eye:
Contact with eyes may cause severe irritation, and possible eye burns.

Skin:
Contact with skin causes irritation and possible burns, especially if the skin is wet or moist.

Ingestion:
May cause severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea. May be harmful if swallowed.

Inhalation:
Causes respiratory tract irritation.

Chronic:
Repeated or prolonged exposure contact with concentrated solutions causes tissue damage and ulceration.

Section 4 - First Aid Measures

Eyes:
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:
Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:
If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:
Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Material will not burn.

Extinguishing Media:
Use extinguishing media most appropriate for the surrounding fire.

Autoignition Temperature:
Not available

Explosion Limits:
Lower: Not available Upper: Not available

Flash Point:
Not available

NFPA Rating:
(estimated) Health: 3; Flammability: 1; Instability: 0
Section 6 - Accidental Release Measures

General Information:
Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:
Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling:
Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Discard contaminated shoes.

Storage:
Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate anhydrous</td>
<td>None listed</td>
<td>None listed</td>
<td>None listed</td>
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<td>Ethylene oxide-nonylphenol polymer</td>
<td>None listed</td>
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<td>Sodium dodecybenzenesulfonate</td>
<td>None listed</td>
<td>None listed</td>
<td>None listed</td>
</tr>
<tr>
<td>Non-hazardous ingredients</td>
<td>None listed</td>
<td>None listed</td>
<td>None listed</td>
</tr>
</tbody>
</table>

OSHA Vacated PELs

Personal Protective Equipment

Eyes:
Wear chemical splash goggles.

Skin:
Wear appropriate protective gloves to prevent skin exposure.

Clothing:
Wear appropriate protective clothing to prevent skin exposure.

Respirators:
A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.
Section 9 - Physical and Chemical Properties

Physical State: Solid
Color: White
Odor: Odorless
pH: 9.5-10 in solution.

Vapor Pressure: No information found
Vapor Density: No information found
Evaporation Rate: No information found
Viscosity: No information found
Boiling Point: No information found
Freezing/Melting Point: No information found
Decomposition Temperature: No information found
Solubility in water: Moderately soluble in water.
Specific Gravity/Density: No information found
Molecular Formula: Mixture
Molecular Weight: No information found

Section 10 - Stability and Reactivity

Chemical Stability:
Stable.

Conditions to Avoid:
Dust generation

Incompatibilities with Other Materials
Strong oxidizing agents

Hazardous Decomposition Products
Carbon monoxide, carbon dioxide, sulfur oxides (SOx), including sulfur oxide and sulfur dioxide

Hazardous Polymerization
Will not occur.

Section 11 - Toxicological Information

RTECS:
CAS# 497-19-8: VZ4050000
CAS# 9016-45-9: AX0247000; AX0257000; MD0900000; MD0905000; OQ0248333; WZ4200000; WZ4375000; WZ4550000; WZ4725000; WZ4750000
CAS# 25155-30-0: DB6825000
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LD50/LC50:

CAS# 497-19-8:
- Draize test, rabbit, eye: 100 mg/24H Moderate
- Draize test, rabbit, eye: 50 mg Severe
- Draize test, rabbit, skin: 500 mg/24H Mild
- Inhalation, mouse: LC50 = 1200 mg/m3/2H
- Inhalation, rat: LC50 = 2300 mg/m3/2H
- Oral, mouse: LD50 = 6600 mg/kg
- Oral, rat: LD50 = 4090 mg/kg.

CAS# 9016-45-9:
- Draize test, rabbit, eye: 5 mg Severe
- Draize test, rabbit, eye: 20 mg Severe
- Draize test, rabbit, eye: 100 mg Severe
- Draize test, rabbit, eye: 50 mg Severe
- Oral, mouse: LD50 = >50 gm/kg
- Oral, rat: LD50 = 4 gm/kg
- Oral, rat: LD50 = 1310 mg/kg
- Oral, rat: LD50 = 2590 uL/kg
- Oral, rat: LD50 = >3 gm/kg
- Oral, rat: LD50 = 4290 uL/kg
- Oral, rat: LD50 = 3670 uL/kg
- Oral, rat: LD50 = 3730 uL/kg
- Oral, rat: LD50 = 4 gm/kg
- Oral, rat: LD50 = 16 gm/kg
- Skin, rabbit: LD50 = 2 mL/kg
- Skin, rabbit: LD50 = 2830 uL/kg
- Skin, rabbit: LD50 = 2520 uL/kg
- Skin, rabbit: LD50 = 1780 uL/kg
- Skin, rabbit: LD50 = 3970 uL/kg
- Skin, rabbit: LD50 = 4490 uL/kg.

CAS# 25155-30-0:
- Draize test, rabbit, eye: 250 ug/24H Severe
- Draize test, rabbit, eye: 1% Severe
- Draize test, rabbit, skin: 20 mg/24H Moderate
- Oral, mouse: LD50 = 1330 mg/kg
- Oral, rat: LD50 = 438 mg/kg.

Carcinogenicity:
CAS# 497-19-8: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 9016-45-9: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 25155-30-0: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology:
No information found

Teratogenicity:
No information found

Reproductive:
No information found

Mutagenicity:
No information found
Neurotoxicity:
   No information found

Other:
   See actual entry in RTECS for complete information.

Section 12 - Ecological Information

No information found

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Part 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P Series Wastes
   None of the components are on this list.

RCRA U Series Wastes
   None of the components are on this list.

Section 14 - Transport Information

US DOT

Proper Shipping Name: Not regulated as a hazardous material

Hazard Class: 

UN Number: 

Packing Group: 

USA RQ: CAS# 25155-30-0: 1000 lb final RQ; 454 kg final RQ

Section 15 - Regulatory Information

US Federal

TSCA
   CAS# 497-19-8 is listed on the TSCA Inventory.
   CAS# 9016-45-9 is listed on the TSCA Inventory.
   CAS# 25155-30-0 is listed on the TSCA Inventory.
   Non-hazardous ingredients is not listed on the TSCA Inventory. It is for research and development use only.

Health and Safety Reporting List
   None of the components are on this list.

Chemical Test Rules
   None of the components are on this list.
TSCA Section 12b
None of the components are on this list.

TSCA Significant New Use Rule (SNUR)
None of the components are on this list.

CERCLA Hazardous Substances and corresponding RQs
- CAS# 25155-30-0: 1000 lb final RQ; 454 kg final RQ

SARA Section 302 Extremely Hazardous Substances
None of the components are on this list.

SARA Hazard Categories
- CAS# 497-19-8: immediate.
- CAS# 9016-45-9: immediate, delayed, fire.
- CAS# 25155-30-0: immediate.

SARA Section 313
None of the components are on this list.

Clean Air Act - Hazardous Air Pollutants (HAPs)
None of the components are on this list.

Clean Air Act - Class 1 Ozone Depletors
None of the components are on this list.

Clean Air Act - Class 2 Ozone Depletors
None of the components are on this list.

Clean Water Act - Hazardous Substances
- CAS# 25155-30-0 is listed as a Hazardous Substance under the CWA.

Clean Water Act - Priority Pollutants
None of the components are on this list.

Clean Water Act - Toxic Pollutants
None of the components are on this list.

OSHA - Highly Hazardous
None of the components are on this list.

OSHA - Specifically Regulated Chemicals
None of the components are on this list.

US State

State Right to Know
Sodium dodecylbenzenesulfonate can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, Massachusetts.
No information found

California Prop 65
None of the components are on this list.

California No Significant Risk Level
None of the components are on this list.
None of the components are on this list.
None of the components are on this list.
None of the components are on this list.

European/International Regulations
European Labelling in Accordance with EC Directives:
   Hazard Symbols: None listed
   Risk Phrases: None listed

WGK (Water Danger/Protection)
   No information found

United Kingdom Occupational Exposure Limits
   No information found

United Kingdom Maximum Exposure Limits
   No information found

Canadian DSL/NDSL
   CAS# 497-19-8 is listed on Canada’s DSL List.
   CAS# 9016-45-9 is listed on Canada’s DSL List.
   CAS# 25155-30-0 is listed on Canada’s DSL List.

Canadian WHMIS Classifications
   This product has a WHMIS classification of D2B.
   This product has been classified in accordance with the hazard criteria of the Controlled Products
   Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List
   CAS# 497-19-8 is listed on the Canadian Ingredient Disclosure List.
   CAS# 25155-30-0 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Other Information

Color information has been
MSDS Creation Date: July 12, 1999
Revision Date: March 22, 2006

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from us, and for no other purpose. Use this product only as directed and in accordance with applicable instructions and
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general information only, and should not be relied upon for any purpose. As with the use of all hazardous materials, you
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