

# Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200)

Revision: May 28, 2020

## 1 Identification

- **Product identifier**

- **Trade name:** EfferSan™ Ready to Use Soution (1 quart water / 1 tablet (4 grams))

- **Other means of identification:** EfferSan™ 1300 ppm available chlorine

- **Recommended use and restriction on use**

- **Recommended use:** Multi-purpose disinfectant

- **Restrictions on use:**

Not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the blood stream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body.

- **Details of the supplier of the Safety Data Sheet**

- **Manufacturer/Supplier:**

Activon, Inc.  
123 Commercial Drive  
Beaver Dam, WI 53916  
USA  
1-800-841-0410

- **Emergency telephone number:** 1-800-222-1222 (Wisconsin Poison Center)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

- **Label elements**

- **GHS label elements** Not regulated.

- **Hazard pictograms:** None.

- **Signal word:** None.

- **Hazard statements:** None.

- **Precautionary statements:** None.

- **Other hazards** There are no other hazards not otherwise classified that have been identified.

## 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Components:**

2893-78-9	sodium dichloroisocyanurate	<2%
	<ul style="list-style-type: none"> <li>⚠ Ox. Sol. 2, H272</li> <li>⚠ Acute Tox. 4, H302; Eye Irrit. 2A, H319; STOT SE 3, H335</li> </ul>	
497-19-8	Sodium carbonate	<1%
	<ul style="list-style-type: none"> <li>⚠ Eye Irrit. 2A, H319</li> </ul>	
124-04-9	adipic acid	<1%
	<ul style="list-style-type: none"> <li>⚠ Eye Irrit. 2A, H319</li> </ul>	

- **Additional information:** For the wording of the listed Hazard Statements, refer to section 16.

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## 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately rinse with water.  
Remove any clothing soiled by the product.  
Seek medical treatment in case of complaints.
- **After eye contact:**  
Remove contact lenses if worn.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; immediately call for medical help.
- **Most important symptoms and effects, both acute and delayed:**  
Slight irritant effect on eyes.  
May cause gastro-intestinal irritation if ingested.
- **Indication of any immediate medical attention and special treatment needed:** Treat symptomatically.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
The product is not flammable.  
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture** No relevant information available.
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Particular danger of slipping on leaked/spilled product.
- **Environmental precautions** Avoid release to the environment.
- **Methods and material for containment and cleaning up**  
Towel or mop up material and collect in a suitable container.  
For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard.  
Send for recovery or disposal in suitable receptacles.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

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## 7 Handling and storage

- **Handling**
- **Precautions for safe handling:**
  - Avoid breathing mist, vapors, or spray.
  - Avoid contact with the eyes and skin.
  - Keep out of reach of children.
- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**
  - Store in cool, dry conditions in well sealed receptacles.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Specific end use(s)** No relevant information available.

## 8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**

### 124-04-9 adipic acid

TLV (USA)	Long-term value: 5 mg/m <sup>3</sup>
EL (Canada)	Long-term value: 5 mg/m <sup>3</sup>
EV (Canada)	Long-term value: 5 mg/m <sup>3</sup>
LMPE (Mexico)	Long-term value: 5 mg/m <sup>3</sup>

- **Exposure controls**
- **General protective and hygienic measures:**
  - The usual precautionary measures for handling chemicals should be followed.
  - Keep away from foodstuffs, beverages and feed.
  - Wash hands before breaks and at the end of work.
  - Avoid contact with the eyes and skin.
- **Engineering controls:** No relevant information available.
- **Breathing equipment:**
  - Not required under normal conditions of use.
  - For large spills, respiratory protection may be advisable.
- **Protection of hands:**
  - Gloves are advised for repeated or prolonged contact.
  - Wear protective gloves to handle contents of damaged or leaking units.
- **Material of gloves** Nitrile rubber, NBR
- **Eye protection:** Follow relevant national guidelines concerning the use of protective eyewear.
- **Body protection:** Protective work clothing
- **Limitation and supervision of exposure into the environment**
  - Avoid release to the environment.
- **Risk management measures** No relevant information available.

## 9 Physical and chemical properties

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## · Information on basic physical and chemical properties

### · Appearance:

Form:	Liquid
Color:	Clear
· Odor:	Chlorine-like
· Odor threshold:	Not determined.

· pH-value:	Slightly acidic
· Melting point/Melting range:	~0 °C (~32 °F)
· Boiling point/Boiling range:	~100 °C (~212 °F)

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not applicable.

· Auto-ignition temperature: Not applicable.

· Decomposition temperature: Not determined.

· Danger of explosion: Product does not present an explosion hazard.

### · Explosion limits

Lower:	Not determined.
Upper:	Not determined.

· Oxidizing properties: Non-oxidizing.

· Vapor pressure: Not applicable.

### · Density:

Relative density:	1.02
Vapor density:	Not applicable.
Evaporation rate:	Not applicable.

· Solubility in / Miscibility with Water: Soluble.

· Partition coefficient (n-octanol/water): Not determined.

### · Viscosity

Dynamic:	Not applicable.
Kinematic:	Not applicable.

· Other information: No relevant information available.

## 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** Reacts with ammonia.
- **Conditions to avoid** Excessive heat.
- **Incompatible materials** Ammonia
- **Hazardous decomposition products** Chlorine compounds

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## 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:** Based on available data, the classification criteria are not met.

- **LD/LC50 values that are relevant for classification:**

**2893-78-9 sodium dichloroisocyanurate**

Oral	LD50	1400 mg/kg (rat)
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- **Primary irritant effect:**

- **On the skin:** Based on available data, the classification criteria are not met.

- **On the eye:** Based on available data, the classification criteria are not met.

- **Sensitization:** Based on available data, the classification criteria are not met.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

- **NTP (National Toxicology Program):**

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

- **Probable route(s) of exposure:**

Ingestion.

Inhalation.

Eye contact.

Skin contact.

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

- **Carcinogenicity:** Based on available data, the classification criteria are not met.

- **Reproductive toxicity:** Based on available data, the classification criteria are not met.

- **STOT-single exposure:** Based on available data, the classification criteria are not met.

- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

- **Aspiration hazard:** Based on available data, the classification criteria are not met.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity** Harmful to aquatic life with long lasting effects.

- **Persistence and degradability** No relevant information available.

- **Bioaccumulative potential:** No relevant information available.

- **Mobility in soil:** No relevant information available.

- **Other adverse effects** No relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

The user of this material has the responsibility to dispose of unused material, residues and containers in

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compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- |   |                 |
|---|-----------------|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>  | Not regulated.  |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>                            | Not regulated.  |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· DOT, ADR/RID/ADN, IMDG, IATA</li> <li>· <b>Class</b></li> </ul> | Not regulated.  |
| <ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>                                      | Not regulated.  |
| <ul style="list-style-type: none"> <li>· <b>Environmental hazards</b></li> <li>· <b>Marine pollutant:</b></li> </ul>                                  | No              |
| <ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> </ul>   | Not applicable. |
| <ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>                    | Not applicable. |

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed or exempt.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity for females:**

None of the ingredients are listed.

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· **Chemicals known to cause developmental toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

· **Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)**

EPA Product Registration #: 66570-2.

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

DANGER: Corrosive: Causes irreversible eye damage. Harmful if swallowed, inhaled or absorbed through skin.

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H272 May intensify fire; oxidizer.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

· **Date of preparation / last revision** May 28, 2020 / -

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Ox. Sol. 2: Oxidizing solids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· **Sources**

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN:

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978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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