



Safety Data Sheet

Issue Date: JANUARY 15, 2014

Revision Date: February 23, 2021

Version 3

1. IDENTIFICATION

Product Identifier

Product Name EfferSan™

Other means of identification

SDS # ACTIVON-001 Effersan NaDCC tablets

Registration Number(s) EPA Registration Number: 66570-2

Recommended use of the chemical and restrictions on use

Recommended Use Multi-purpose hard surface sanitizer and disinfectant.

Details of the supplier of the safety data sheet

Supplier Address

Activon, Inc.
123 Commercial Drive
Beaver Dam, WI 53916

Emergency Telephone Number

Company Phone Number Phone: 1-800-841-0410
Emergency Telephone (24 hr) 1-800-222-1222 (Wisconsin Poison Center)

2. HAZARDS IDENTIFICATION

Appearance White tablet

Physical State Solid

Odor Mild chlorine

Classification

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2
Very toxic to aquatic life – with long lasting effects	Category 1
Specific target organ toxicity (single exposure)	Category 3

Hazards Not Otherwise Classified (HNOC)

May be harmful in contact with skin.

Signal Word

Warning

Hazard Statements

Harmful if swallowed
Causes serious eye irritation
May cause respiratory irritation.
Very toxic to aquatic life with long lasting effects

**Precautionary Statements - Prevention**

Wash face, hands, and any exposed skin thoroughly after handling
 Do not eat, drink, or smoke when using this product.
 Wear eye/face protection
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area.

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a poison center or doctor/ physician.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a poison center or doctor/physician if you feel unwell.
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 Rinse mouth.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed
 Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Other Hazards

Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Dichloroisocyanuric acid, sodium salt	2893-78-9	48.5-51.5
Adipic acid	124-04-9	21.3-22.7
Sodium carbonate	497-19-8	4.3-4.7

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

Skin Contact

Wash off immediately with soap and plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Inhalation	If symptoms occur, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician. If victim is unconscious, seek immediate medical attention.
Ingestion	If exposed subject is fully conscious, give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately call a poison center or doctor/physician.

Most important symptoms and effects

Symptoms	<p>Acute Inhalation: Inhalation is irritating to the nose, throat, mucous membranes, and respiratory tract. Symptoms may include coughing, wheezing, runny or bloody nose, or sneezing. High concentration may cause burns to the respiratory tract with possible lung edema (fluid in the lung), which can result in shortness of breath, wheezing, choking, chest pain, and impairment of lung function. In extreme situations, acute inhalation may cause permanent lung damage from this corrosive action on the lung. Chronic Inhalation: Repeated inhalation of high concentrations may cause impairment of lung function and, in extreme situations, permanent lung damage.</p> <p>Acute Skin: Direct contact can cause severe irritation and/or burns characterized by redness, swelling, and scab formation. Prolonged contact may cause destruction of the outer skin layer with impairment of the skin and site of contact to repair or regenerate itself. Chronic Skin: Repeated contact would cause similar effects to single exposures.</p> <p>Acute Eye: Direct contact or high dust concentrations may cause severe irritation and/or burns. This may result in impairment of vision and permanent eye damage. Acute Ingestion: Irritation and/or burns may occur from ingestion of this product. This may result in burns to the mouth, throat, and gastrointestinal tract, nausea, vomiting, diarrhea, abdominal pain, bleeding and/or tissue destruction. Conditions Medical Aggravated by Exposure: Asthma, emphysema, and other respiratory diseases.</p> <p>NOTE these symptom and effects will mostly be caused by small respirable particles which is not how the product is shipped or the expected form when the container is opened for use. these are precautionary statements.</p>
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Indication of any immediate medical attention and special treatment needed.

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Not determined.

Hazardous Combustion Products Toxic gases may be formed by fire. Carbon dioxide (CO2). Chlorine.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to keep fire-exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal Precautions	Use personal protective equipment as required. Remove all sources of ignition.
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Environmental Precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS. This material is heavier than water. This material is semi-soluble. Stop spill materials from entering water source if safe to do so. Check all water for available chlorine content and notify all downstream users of possible contamination.

Methods and material for containment and cleaning up.

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Clean up spill material using clean, dry equipment and place in a clean plastic bag or container free of oil, grease, or organic materials. Reseal original container and remove both to an outside well-ventilated area for later treatment and/or disposal. Wash down area and collect water for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, or clothing. Use personal protection recommended in Section 8. Wash face, hands, and any exposed skin thoroughly after handling.

Do not eat, drink, or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Conditions for safe storage, including any incompatibilities.

Storage Conditions Keep container tightly closed and store in a cool, dry, and well-ventilated place. Do not store at elevated temperatures (above 140 deg. F). Protect from moisture. Keep away from heat. Store locked up. Shelf life ~ 36 months.

Incompatible Materials Flammable liquids, combustible materials, oxidizable materials, oxidizing or chlorinating agents, organic materials, ammonia, ammonium salts, hydrated salts, non-ionic surface-active agents, acids, and bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The information below refers to adipic acid which is on component of the NaDCC tablets that has a ACFIH TLV associated with its exposure.

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Adipic acid 124-04-9	TWA: 5 mg/m ³	-	-

Appropriate engineering controls

Engineering Controls Use in well ventilated areas. If dust can be generated, then provide local exhaust ventilation when applicable. Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Chemical anti-splash safety goggles.

Skin and Body Protection Suitable protective clothing. Impervious gloves such as nitrile are recommended for operations which may result in prolonged or repeated skin contact. Impervious apron.

Respiratory Protection

The tablets come in a solid tablet form and minimal dust is expected to be created in transport that would be respirable. When using the product for general use of diluting the tablet in water proper ventilation is required.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, or smoke when using this product. Wash face, hands, and any exposed skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Solid	Odor	Mild chlorine
Appearance	White tablet	Odor Threshold	Not determined
Color	White	Remarks • Method	
<u>Property</u>	<u>Values</u>		
pH	6.0 @ 25°C	(1% solution)	
Melting Point/Freezing Point	240-250 °C / 464-482 °F		
Boiling Point/Boiling Range	Not applicable		
Flash Point	Not flammable		
Evaporation Rate	Not applicable		
Flammability (Solid, Gas)	Not flammable		
Upper Flammability Limits	Not applicable		
Lower Flammability Limit	Not applicable		
Vapor Pressure	None @ 25°C		
Vapor Density	Not applicable		
Specific Gravity	1.5 - 1.7		
Water Solubility	Completely soluble in water		
Solubility in other solvents	Not determined		
Partition Coefficient	Log Kow - 0		
Auto-ignition Temperature	Not determined		
Decomposition Temperature	76°C (170°F)		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		
Bulk Density	0.9 - 1.0 g/cc		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions. May become unstable at temperatures above 76°C (170°F).

Possibility of Hazardous Reactions

None under normal use.

Conditions to Avoid.

See Sec. 7 Handling & Storage.

Incompatible Materials

Flammable liquids, combustible materials, oxidizable materials, oxidizing or chlorinating agents, organic materials, ammonia, ammonium salts, hydrated salts, non-ionic surface-active agents, acids, and bases.

Hazardous Decomposition Products

Toxic fumes may be released. Chlorine. Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Causes serious eye irritation.as a dust. In diluted use form solution is classified as non-irritating.
Skin Contact	May be harmful in contact with skin.in dust form.
Inhalation	Avoid inhalation of dust.
Ingestion	Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dichloroisocyanuric acid, sodium salt 2893-78-9	= 735 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 50 mg/L (Rat) 1 h
Adipic acid 124-04-9	> 11000 mg/kg (Rat)	-	> 31 mg/L (Rat) 1 h
Sodium Bicarbonate 144-55-8	= 4220 mg/kg (Rat)	-	-
Sodium carbonate 497-19-8	= 4090 mg/kg (Rat)	-	= 2300 mg/m ³ (Rat) 2 h

Information on physical, chemical, and toxicological effects

Symptoms, please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

STOT - single exposure May cause respiratory irritation.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects in solid concentrate form

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Dichloroisocyanuric acid, sodium salt 2893-78-9		0.25 - 1: 96 h Lepomis macrochirus mg/L LC50 static 0.207 - 0.389: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.176 - 0.267: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.29: 96 h Oncorhynchus mykiss mg/L LC50 0.13 - 0.36: 96 h Oncorhynchus mykiss mg/L LC50 static		0.00018 - 0.00021: 48 h Daphnia magna mg/L EC50 0.093 - 0.16: 48 h Daphnia magna mg/L EC50
Adipic acid 124-04-9	31.3: 72 h Desmodesmus subspicatus mg/L EC50 26.6: 96 h Desmodesmus subspicatus mg/L EC50	97: 96 h Pimephales promelas mg/L LC50 static 230: 96 h Leuciscus idus mg/L LC50 static	EC50 = 91.9 mg/L 17 h	85.7: 48 h Daphnia magna mg/L EC50
Sodium Bicarbonate 144-55-8	650: 120 h Nitzschia linearis mg/L EC50	8250 - 9000: 96 h Lepomis macrochirus mg/L LC50 static		2350: 48 h Daphnia magna mg/L EC50
Sodium carbonate 497-19-8	242: 120 h Nitzschia mg/L EC50	300: 96 h Lepomis macrochirus mg/L LC50 static 310 - 1220: 96 h Pimephales promelas mg/L LC50 static		265: 48 h Daphnia magna mg/L EC50

Persistence/Degradability

The material s used in the formulation do not persist in the environment/ The FAC from the NaDCC is .consumed by reaction with organic and organic materials.

Bioaccumulation

Hydrolysis in water leads to products that are not bioaccumable.

Chemical Name	Partition Coefficient
Adipic acid 124-04-9	0.081

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national, and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national, and local laws and regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Dichloroisocyanuric acid, sodium salt 2893-78-9	Ignitable
Sodium carbonate 497-19-8	Corrosive

14. TRANSPORT INFORMATION

<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
<u>DOT</u>	Not regulated
<u>IATA</u>	When packed in inner or single packs <_5 kg special provisions 375 of 2015 IN Model Regs for the transportation of dangerous goods (IATA special provisions A197) exempts this product from the labeling and documentation provisions of Dangerous Goods Regulations
<u>IMDG</u> Marine Pollutant	This material may meet the definition of a marine pollutant. Marine pollutant packaged in single or inner packaging containing a net quantity per single packaging having a net mass per single of inner packaging of 5 kg or less for solids are not subject to other provisions of this code relevant to marine pollutants provided the packaging meet the provisions of this code. relevant to marine pollutants provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2, and 4.1.1.4 to 4.1.1.8

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Dichloroisocyanuric acid, sodium salt	Present	X		Present		Present	X	Present	X	X
Adipic acid	Present	X		Present		Present	X	Present	X	X
Sodium carbonate	Present	X		Present		Present	X	Present	X	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Adipic acid 124-04-9	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	Yes

SARA 313

Not determined

CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Adipic acid	5000 lb			X

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Dichloroisocyanuric acid, sodium salt 2893-78-9	X		X
Adipic acid 124-04-9	X	X	X

EPA Pesticide Registration Number : 66570-2

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	3	1	2	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	3	1	2	Not determined

Issue Date: 15-Jan-2014
 Revision Date: 23-Feb-2021
 Revision Note: Update transportation info.

Disclaimer
 The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet