

Material Safety Data Sheet

OSHA / ANSI Z400.1-2004 Compliant



Date / Revised: 03-24-2009

Release: 1.1

Product: TINOSAN SDC

NFPA Hazard codes:

Health: 1 Fire: 1 Reactivity: 1 Special:

HMIS III rating

Health: 1 Flammability: 1 Physical hazard: 1 Personal protection: X

HMIS Note: * Indicates possible chronic health effects.

1. Identification of the Substance/Preparation and of the Company/Undertaking

Company Information

Company: Ciba Corporation
540 White Plains Road
P.O. Box 2005
Tarrytown, NY 10591-9005
U.S.A.
Customer Service / Product Information: 1-800-474-4731
MSDS Request Line: 1-800-431-2360

Emergency information

Emergency 24-Hour +1-800-873-1138
Health/Environmental Phone:
CHEMTREC: (800) 424-9300 (24hrs) or (703) 527-3887

Product information

Product: TINOSAN SDC
Use: Antimicrobial agent

2. Hazards Identification

Emergency overview

Colour: colourless
Appearance: liquid
State of matter: liquid
Odour: odourless
Health: This product has no known adverse effect on human health.

3. Composition/Information on Ingredients

This material does not contain any hazardous components above OSHA thresholds.

This material is classified as not hazardous under OSHA regulations.

4. First-aid Measures

Inhalation:

Remove to fresh air, if not breathing give artificial respiration. If breathing is difficult, give oxygen and get immediate medical attention.

Skin:

Rinse skin immediately with plenty of water for 15 - 20 minutes.
Remove contaminated clothing immediately and launder before re-use.
Seek medical attention.

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Eyes:

Immediately flush the eye(s) with lukewarm, gently flowing water for 15 minutes or until the chemical is removed. Get immediate medical attention if irritation persists.

Ingestion:

Do not induce vomiting. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. Seek medical attention immediately.

5. Fire-fighting Measures

Suitable extinguishing media:

carbon dioxide, dry powder, foam

Hazardous combustion products:

Burning may produce toxic combustion products.

Hazards during fire-fighting:

Standard procedure for chemical fires.

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

6. Accidental Release Measures

Cleanup:

Pick up with inert absorbent material (e.g. sand, earth etc.).

Place into approved waste containers.

Wear suitable protective equipment.

Should not be released into the environment.

7. Handling and Storage

Handling

General advice:

As with all industrial chemicals, use good industrial practices when handling. Avoid eye, skin, and clothing contact.

Do not inhale. Do not taste or swallow. Use only with adequate ventilation.

Keep away from heat or direct sunlight.

Protection against fire and explosion:

No physical hazards determined at this time. Handle this liquid with care and follow standard industrial practices.

Storage

General advice:

Keep container tightly closed in a dry, cool and well-ventilated place.

Keep away from heat or direct sunlight.

Temperature tolerance:

Protect from temperatures below: 5 °C

Protect from temperatures above: 40 °C

> for industrial use only <

8. Exposure Controls and Personal Protection

Exposure Guidelines

Engineering Controls:

Work in well ventilated areas. Do not breathe vapors or mist.

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Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified respirator as necessary.

Eye protection:

Tightly fitting safety goggles (chemical goggles).

Body protection:

Wear chemical resistant gloves and protective clothing.

General safety and hygiene measures:

There are no OSHA or ACGIH exposure guidelines available for component(s) in this product.

9. Physical and Chemical Properties

Colour:	colourless	
Form:	liquid	
State of matter:	liquid	
Odour:	odourless	
pH value:	1.4 - 1.6	
Evaporation rate:		no data available
Flammability:	no data available	
Lower explosion limit:		no data available
Upper explosion limit:		no data available
Flash point:		Not tested
Self-ignition temperature:		Not tested
Melting point:		Not tested
Boiling point:		Not tested
Sublimation point:		Not applicable
Vapour pressure:		no data available
Density:	1.085 - 1.095 g/cm ³	
Relative density:		no data available
Vapour density:		no data available
Partitioning coefficient n-octanol/water (log Pow):		no data available
Viscosity, dynamic:		Not tested
Viscosity, kinematic:		no data available
% Volatiles:		not determined
Solubility in water:		Not tested
Solubility in other solvents:		no data available
Autoignition:		Not tested
Decomposition temperature:		Not tested

10. Stability and Reactivity

Stability:

Stable

Conditions to avoid: Avoid temperature extremes, especially frost and freezing conditions. Avoid direct sunlight.

Substances to avoid: Strong oxidizing agents, strong acids, strong bases.

Possibility of Hazardous Reactions: No hazardous reactions known.

Hazardous decomposition products: No decomposition expected under normal storage conditions.

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11. Toxicological Information

Acute oral toxicity:

LD50 / Oral / rat: > 5,000 mg/kg

Acute inhalation toxicity:

not determined

Acute dermal toxicity:

LD50 / dermal / rat: > 5,000 mg/kg

Skin irritation:

(Rabbits) Not an irritant.

Eye irritation:

(Rabbits) Not an irritant.

Skin Sensitization:

(Guinea Pig) (Buehler Test) Not a sensitizer.

Subacute toxicity:

Not tested

Subchronic Toxicity:

Not tested

Chronic toxicity:

Not tested

Genetic toxicity:

Not tested

Carcinogenicity:

None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

Reproductive toxicity:

Not tested

Developmental toxicity/teratogenicity:

Not tested

12. Ecological Information

Toxicity to fish:

Not tested

Toxicity to aquatic invertebrates:

Daphnia magna/48 h/EC50: 0.32 mg/l

Toxicity to aquatic plants:

Not tested

Toxicity to microorganisms:

Not tested

Mobility

no data available

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Biodegradation:

Not tested

Chemical oxygen demand (COD):

Not tested

Biochemical oxygen demand (BOD):

Not tested

Bioaccumulation:

no data available

Other ecotoxicological advice:

Very toxic to aquatic organisms if run directly to surface waters.

13. Disposal Considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations.

Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40 CFR 261).

14. Transport Information

U.S. Department of Transportation

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

Road transport:

Proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Technical name:	(CITRIC ACID; DISSOCIATED IONIC SILVER)
Hazard class:	8
UN/ID-number:	UN 3265
Label:	8
Packing Group:	III
Marine pollutant:	YES

Air transport:

Proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Technical name:	(CITRIC ACID; DISSOCIATED IONIC SILVER)
Hazard class:	8
UN/ID-number:	UN 3265
Label:	8
Packing Group:	III
Marine pollutant:	YES

International Air Transport Association (IATA)

Proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Technical name:	(CITRIC ACID; DISSOCIATED IONIC SILVER)
Hazard class:	8
UN/ID-number:	UN 3265
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International Maritime Dangerous Goods Code (IMDG)

Proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Technical name:	(CITRIC ACID; DISSOCIATED IONIC SILVER)
Hazard class:	8
UN/ID-number:	UN 3265
Label:	8
Packing Group:	III
Marine pollutant:	YES

15. Regulatory Information

Canada: Domestic Substances List (DSL):	Not all components are listed on the DSL
US: Toxic Substances Control Act (TSCA):	All component(s) comprising this product are either exempt or listed on the TSCA inventory

United States - Regulations

SARA Section 311/312 Hazard Communication Standard:

Acute Health:	N	Fire:	N
Chronic Health:	N	Reactivity:	N
		Sudden release of pressure:	N

SARA Reportable Quantities:

No components listed.

SARA Section 313 Toxic Chemical List:

This product does not contain any components reportable under Sec 313 (40 CFR 372).

OSHA hazard category:

This material is classified as not hazardous under OSHA regulations.

Toxic Substances Control Act (TSCA) Significant New Use Rule (SNUR):

This product is not subject to a Significant New Use Rule (SNUR).

Toxic Substances Control Act (TSCA) Section 5(e) Consent Orders:

This product is not subject to a Section 5(e) Consent Order.

Toxic Substances Control Act (TSCA) Section 5(f):

This product is not subject to a Section 5(f)/6(a) rule.

Toxic Substances Control Act (TSCA) Section 12(b) Export Notification:

No components listed.

Clean Air Act - Hazardous Air Pollutants (HAP):

This product does not contain any Hazardous Air Pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

Clean Air Act 602 - Ozone Depleting Substances (ODS):

This product neither contains, nor was manufactured with, a Class I or Class II ozone depleting substance (ODS), as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A+B).

Clean Water Act - Priority Pollutants (PP):

This product contains the following priority pollutants listed under the U.S. Clean Water Act Section 307 (2)(1) Priority Pollutant List (40 CFR 401.15):

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Pennsylvania Right to Know:

This product does not contain any components that are subject to the Pennsylvania Right-To-Know disclosure requirement.

California Proposition 65 - Chemicals Known to the State to Cause Cancer:

No components listed.

California Proposition 65 - Chemicals Known to the State to Cause Reproductive Toxicity:

No components listed.

International Regulations

Chemical Weapons Convention:

This product does not contain any component(s) listed under the Chemical Weapons Convention Schedule of Chemicals.

16. Other Information

Disclaimer:

The information contained herein is based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to such data or information. The user is responsible for determining whether the product is suitable for its intended conditions of use.

END OF DATA SHEET