

Safety Data Sheet

Acticoat (with SILCRYST Nanocrystals) Absorbent Dressing

1. Identification

1.1. Product identifier

Product Identity Acticoat* (with SILCRYST Nanocrystals) Absorbent Dressing
* Trademark of Smith & Nephew - TM SILCRYST is a trademark of Smith & Nephew , Inc.

Alternate Names Acticoat Absorbent Dressing with silver coating

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use Medical device used for infection control.

Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name Smith & Nephew
970 Lake Carillon Drive, Suite 110
St. Petersburg, FL 33716

Emergency

Customer Service: Smith & Nephew 1-800-876-1261

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Eye Dam. 1;H318 Causes serious eye damage.

Aquatic Chronic 1;H410 Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Danger

H318 Causes serious eye damage.
H410 Very toxic to aquatic life with long lasting effects.

[Prevention]:

P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.

[Response]:

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P310 Immediately call a POISON CENTER or doctor / physician.
P391 Collect spillage.

Safety Data Sheet

Acticoat (with SILCRYST Nanocrystals) Absorbent Dressing

[Storage]:

No GHS storage statements

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Alginate acid, calcium salt CAS Number: 0009005-35-0	75 - 100	Not Classified	[1]
Silver CAS Number: 0007440-22-4	1.0 - 10	Not Classified	[1][2]
Silver oxide CAS Number: 0020667-12-3	1.0 - 10	Ox. Sol. 1;H271 Eye Dam. 1;H318 Aquatic Acute 1;H400 Aquatic Chronic 1;H410	[1]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation

This dressing does not present an inhalation hazard.

Eyes

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin

Obtain medical attention in the event skin irritation develops or persists.

Ingestion

Ingestion of the dressing will act as a foreign body. Obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Overview

Acute Effects

Temporary discoloration of affected areas or rashes and irritation in sensitized individuals.

Eye: Corneal irritation may occur as a result of mechanical abrasion. In the event of eye irritation, flush eyes with flowing water.

Skin: Skin irritation may result as an allergic reaction to the silver content of the dressing. Obtain medical attention in the event irritation develops or persists.

Ingestion: Ingestion of the dressing may cause a choking hazard or internal blockage. Obtain medical attention.

Chronic Effects

Safety Data Sheet

Acticoat (with SILCRYST Nanocrystals) Absorbent Dressing

Excessive or chronic exposure to silver by skin contact, ingestion or inhalation may cause Argyrosis - a local or generalized discoloration of the eyes, skin and mucous membranes, where grey or blue patches of pigmentation are formed.

See section 2 for further details.

Eyes

Causes serious eye damage.

5. Fire-fighting measures

5.1. Extinguishing media

Dressing is not reactive to water or other means of extinguishment. If involved in a fire, treat as a flammable solid.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

5.3. Advice for fire-fighters

A Self-Contained Breathing Apparatus should be worn.

Do not release runoff from fire control methods to sewers or waterways.

ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Treat used dressing as medical waste. No special spill procedures required.

7. Handling and storage

7.1. Precautions for safe handling

No special handling procedures required. If used, handle as per medical waste.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: The silver coating is incompatible with these products: Acetylene, Acids, Amines, Ammonia, Hydrazine, Metal Sulfides, Peroxides, Strong oxidizers.

Store in a cool, dry environment. Keep away from moisture. Avoid extreme heat and strong oxidizing agents.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

Safety Data Sheet

Acticoat (with SILCRYST Nanocrystals) Absorbent Dressing

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0007440-22-4	Silver	OSHA	TWA 0.01 mg/m ³
		ACGIH	TWA: 0.01 mg/m ³ STEL: 0.03 mg/m ³
		NIOSH	TWA 0.01 mg/m ³
		Supplier	No Established Limit
0009005-35-0	Alginic acid, calcium salt	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0020667-12-3	Silver oxide	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0007440-22-4	Silver	OSHA	Select Carcinogen: No
		NTP	Know n: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0009005-35-0	Alginic acid, calcium salt	OSHA	Select Carcinogen: No
		NTP	Know n: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0020667-12-3	Silver oxide	OSHA	Select Carcinogen: No
		NTP	Know n: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

- Respiratory** No special protection is required.
- Eyes** No special protection is required.
- Skin** No special protection is required.
- Engineering Controls** None required.
- Other Work Practices** Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

Safety Data Sheet

Acticoat (with SILCRYST Nanocrystals) Absorbent Dressing

9. Physical and chemical properties

Appearance	Grey/Brown Non-woven Fabric
Odor	Odorless
Odor threshold	Not Measured
pH	Not available
Melting point / freezing point	Not applicable
Initial boiling point and boiling range	Not applicable
Flash Point	Not available
Evaporation rate (Ether = 1)	Not applicable
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not available Upper Explosive Limit: Not available
Vapor pressure (Pa)	Not applicable
Vapor Density	Not applicable
Specific Gravity	> 1
Solubility in Water	Silver coating is sparingly soluble in water.
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity (cSt)	Not applicable
VOC Content	Not available
Taste	Metallic

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

Fiber will gel or dissolve in an aqueous solution containing sodium or certain ions.

10.4. Conditions to avoid

Avoid extreme heat and strong oxidizing agents.

10.5. Incompatible materials

The silver coating is incompatible with these products: Acetylene, Acids, Amines, Ammonia, Hydrazine, Metal Sulfides, Peroxides, Strong oxidizers.

10.6. Hazardous decomposition products

No hazardous decomposition data available.

Safety Data Sheet

Acticoat (with SILCRYST Nanocrystals) Absorbent Dressing

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Alginic acid, calcium salt - (9005-35-0)	No data available	No data available	No data available	No data available	No data available
Silver - (7440-22-4)	No data available	No data available	No data available	No data available	No data available
Silver oxide - (20667-12-3)	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

Toxic to aquatic life

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Alginic acid, calcium salt - (9005-35-0)	Not Available	Not Available	Not Available
Silver - (7440-22-4)	Not Available	Not Available	Not Available
Silver oxide - (20667-12-3)	Not Available	Not Available	Not Available

Safety Data Sheet

Acticoat (with SILCRYST Nanocrystals) Absorbent Dressing

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Applicable	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			
IMDG	Marine Pollutant: Yes (Silver oxide)		
14.6. Special precautions for user	No further information		

15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
WHMIS Classification	D2B E
US EPA Tier II Hazards	Fire: No Sudden Release of Pressure: No Reactive: No Immediate (Acute): Yes

Safety Data Sheet

Acticoat (with SILCRYST Nanocrystals) Absorbent Dressing

Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs (lbs):

Silver (1,000.00)

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

Silver

Silver oxide

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

Silver

Pennsylvania RTK Substances (>1%):

Silver

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H271 May cause fire or explosion; strong oxidizer.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Not Classified Not Classified

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

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