

# Safety Data Sheet

## Acticoat (with SILCRYST Nanocrystals) Flex 3 and Flex 7 Dressing

### 1. Identification

#### 1.1. Product identifier

**Product Identity** Acticoat\* (with SILCRYST Nanocrystals) Flex 3 and Flex 7 Dressing  
\* Trademark of Smith & Nephew - <sup>TM</sup> SILCRYST is a trademark of Smith & Nephew, Inc.

**Alternate Names** Acticoat Flex 3 and Flex 7 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.

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### [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
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

If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

### 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

Excessive or chronic exposure to silver by skin contact, ingestion or inhalation may cause

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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]:

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### 7.3. Specific end use(s)

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 <sup>3</sup>
		ACGIH	TWA: 0.01 mg/m <sup>3</sup> STEL: 0.03 mg/m <sup>3</sup>
		NIOSH	TWA 0.01 mg/m <sup>3</sup>
		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	Known: 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	Known: 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]:

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### 9. Physical and chemical properties

<b>Appearance</b>	Dark grey on top and bottom, one layer of polyester fabric
<b>Odor</b>	Odorless
<b>Odor threshold</b>	Not Measured
<b>pH</b>	Not available
<b>Melting point / freezing point</b>	120°C
<b>Initial boiling point and boiling range</b>	Not applicable
<b>Flash Point</b>	Not available
<b>Evaporation rate (Ether = 1)</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> Not available <b>Upper Explosive Limit:</b> Not available
<b>Vapor pressure (Pa)</b>	Not applicable
<b>Vapor Density</b>	Not applicable
<b>Specific Gravity</b>	> 1
<b>Solubility in Water</b>	Silver coating is sparingly soluble in water.
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Viscosity (cSt)</b>	Not applicable
<b>VOC Content</b>	Not available
<b>Taste</b>	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

No data available.

#### 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.

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### 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
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
Silver - (7440-22-4)	Not Available	Not Available	Not Available
Silver oxide - (20667-12-3)	Not Available	Not Available	Not Available

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#### 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

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

### 15. Regulatory information

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

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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%):

Chromium (VI)

### Proposition 65 - Developmental Toxins (>0.0%):

Chromium (VI)

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

Chromium (VI)

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

Chromium (VI)

### 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

**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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