

# SAFETY DATA SHEET

According to 29CFR 1910.1200 OSHA Hazard Communication Standard

Document Code:	SDS-0058
Create Date:	5/21/2025
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#### **SECTION 1: Identification**

#### 1.1. Identification

Product form

Product name Silver Honey® Spray Skin Care

Product number 430497

#### 1.2. Recommended use and restrictions on use

Recommended use : Skin Care Spray Restrictions on use : Not for Human Use

#### 1.3. Supplier

#### Manufacturer

W.F. Young, Inc. 302 Benton Drive

East Longmeadow, MA 01028

USA

T (413) 526-9999 x 468 - F (413) 526-9869

www.wfyoung.com

#### 1.4. Emergency telephone number

**Emergency number** : Company Hotline: +1 (413) 526-9999

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Eye irritation Category 2

Hazardous to the aquatic environment – Acute Hazard Category 2 Hazardous to the aquatic environment - Chronic Hazard Category 2

Causes serious eye irritation

Toxic to aquatic life

Toxic to aquatic life with long lasting effects

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)





Signal word (GHS US) Warning

Hazard statements (GHS US) Causes serious eye irritation

Toxic to aquatic life with long lasting effects

Precautionary statements (GHS US) Wash hands thoroughly after handling.

Avoid release to the environment.

Wear eye protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Collect spillage.

Creator	Controller	Approvers
Victor Vides	Victor Vides	Michael Carlson - Director of Quality
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Dispose of contents/container to a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

# 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

No additional information available

# **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%
Propylene glycol	CAS-No.: 57-55-6	5 – 10
Glycerin	CAS-No.: 56-81-5	1 – 5
2-Phenoxyethanol	CAS-No.: 122-99-6	0.5-1.5
Zinc gluconate	CAS-No.: 4468-02-4	0.1-<1
3-(2-Ethylhexyloxy)propane-1,2-diol	CAS-No.: 70445-33-9	0.1-<1
Silver	CAS-No.: 7440-22-4	0.1-<1

<sup>\*</sup>Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms occur.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing and wash it before reuse. Seek medical attention if irritation develops.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : May cause moderate irritation to the eyes. Inhalation of airborne droplets or aerosols may cause

irritation of the respiratory tract. Ingestion may cause nausea, vomiting and diarrhea.

Chronic symptoms : None known.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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#### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : This product is not classified as flammable or combustible.

Explosion hazard : Prolonged exposure to fire may cause containers to rupture/explode.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2). Toxic fumes may be released.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Cool down the containers exposed to heat with a water spray. Do not allow run-off from

firefighting to enter drains or water courses.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Use self-contained breathing

apparatus and chemically protective clothing.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not touch or walk on the spilled product. Avoid contact with eyes.

6.1.1. For non-emergency personnel

Emergency procedures : Avoid contact with skin and eyes. Avoid breathing mist. Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer

to section 8: "Exposure controls/personal protection".

# 6.2. Environmental precautions

Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Dike and contain spill.

Methods for cleaning up : Absorb and/or contain spill with inert material, then place in suitable container. Notify authorities

if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes. Avoid repeated or prolonged skin contact. Wear personal protective

equipment. Avoid breathing mist. Ensure good ventilation of the work station.

Hygiene measures : Always wash hands after handling the product. Do not eat, drink or smoke when using this

product. Wash contaminated clothing before reuse.

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#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in dry, well-ventilated area. Protect from physical damage. Keep away from heat and direct sunlight. Keep container tightly closed. Keep away from children.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Propylene glycol (57-55-6)	
USA - AIHA - Occupational Exposure Limits	
WEEL TWA	10 mg/m³
Glycerin (56-81-5)	
USA - OSHA - Occupational Exposure Limits	
Local name	Glycerin (mist)
OSHA PEL (TWA)	15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Silver (7440-22-4)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Silver
ACGIH OEL TWA	0.1 mg/m³ (Metal, dust and fume) 0.01 mg/m³ (Soluble compounds, as Ag)
Remark (ACGIH)	TLV® Basis: Argyria
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Limits	
Local name	Silver, metal and soluble compounds (as Ag)
OSHA PEL (TWA)	0.01 mg/m³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Use with adequate general or local exhaust ventilation to maintain exposure levels below the

occupational exposure limits.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

No personal protective equipment required under normal use.

# Eye protection:

Wear safety goggles or other eye protection to prevent eye contact.

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#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Cloudy. Brownish gray to grey brown. Liquid. Pump spray.

Color : Brownish gray to grey brown

Odor : Odorless

Odor threshold : No data available

pH : 7.3

Melting point : Not applicable Freezing point : No data available

Boiling point : 100 °C

Flash point : No data available Relative evaporation rate (butyl acetate=1) No data available Flammability (solid, gas) Not applicable. Vapor pressure No data available Relative vapor density at 20°C No data available Relative density No data available Solubility Emulsifies in water. Partition coefficient n-octanol/water (Log Pow) No data available Auto-ignition temperature No data available : No data available Decomposition temperature Viscosity, kinematic : No data available Viscosity, dynamic : 1140 mPa·s **Explosion limits** : No data available Explosive properties No data available Oxidizing properties No data available Particle characteristics No data available

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

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# 10.3. Possibility of hazardous reactions

Reacts with (strong) oxidizers.

#### 10.4. Conditions to avoid

Keep away from heat and flame.

#### 10.5. Incompatible materials

Keep away from oxidizers, strong acids and strong bases.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Propylene glycol (57-55-6)			
LD50 oral rat	22000 mg/kg		
LD50 dermal rat	20800 mg/kg		
LD50 dermal rabbit	> 2000 mg/kg		
Glycerin (56-81-5)			
LD50 oral rat	27200 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Female, Experimental value, Oral)		
LD50 oral	25000 mg/kg body weight		
LD50 dermal	56750 mg/kg (4 day(s), Guinea pig, Male / female, Experimental value, Dermal, 14 day(s))		
LC50 Inhalation - Rat (Dust/Mist)	> 5.85 mg/l		
Zinc gluconate (4468-02-4)			
LD50 oral rat	> 5000 mg/kg		
LC50 Inhalation - Rat (Dust/Mist)	6.69 mg/l/4h		
Silver (7440-22-4)			
LD50 oral rat	> 2000 mg/kg		
LD50 dermal rat	> 2000 mg/kg		
LC50 Inhalation - Rat (Dust/Mist)	> 5.16 mg/l/4h		
3-(2-Ethylhexyloxy)propane-1,2-diol (70445-33-9)			
LD50 oral rat	> 2000 mg/kg		
LD50 dermal rat > 2000 mg/kg			
LC50 Inhalation - Rat (Dust/Mist)	2.83 mg/l/4h		

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2-Phenoxyethanol (122-99-6)	
LD50 oral rat	1840 mg/kg
LD50 dermal rat	14391 mg/kg body weight
LD50 dermal rabbit	> 2214 mg/kg body weight
Skin corrosion/irritation :	Not classified pH: 7.3
Serious eye damage/irritation :	Causes serious eye irritation. pH: 7.3
, ,	Not classified
3 ,	Not classified
- 3 ,	Not classified
Reproductive toxicity :	Not classified
2-Phenoxyethanol (122-99-6)	
LOAEL (animal/male, F1)	≈ 1875 mg/kg body weight
LOAEL (animal/female, F1)	≈ 1875 mg/kg body weight
NOAEL (animal/female, F0/P)	≈ 1875 mg/kg body weight
STOT-single exposure :	Not classified
2-Phenoxyethanol (122-99-6)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure :	Not classified
Propylene glycol (57-55-6)	
NOAEL (subchronic,oral,animal/male,90 days)	443 mg/kg body weight Animal: cat, Animal sex: male
Silver (7440-22-4)	
LOAEL (oral,rat,90 days)	125 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
2-Phenoxyethanol (122-99-6)	
LOAEL (oral,rat,90 days)	> 700 mg/kg body weight
LOAEL (dermal,rat/rabbit,90 days)	> 500 mg/kg body weight rabbit
NOAEL (dermal,rat/rabbit,90 days)	500 mg/kg body weight rabbit
·	Not classified
Viscosity, kinematic :	No data available
Glycerin (56-81-5)	
Viscosity, kinematic	1119.746 mm²/s
Symptoms/effects :	May cause moderate irritation to the eyes. Inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, vomiting and diarrhea.
Chronic symptoms :	None known.

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# SECTION 12: Ecological information

12	1	To	xic	city

Ecology - general	:	Toxic to aquatic life.	. Toxic to a	quatic life	with lon-	a lastino	a effects.

Propylene glycol (57-55-8)         51400 mg/l Pimephales prometas (Fathead minnow)           LC50 - Fish [1]         51400 mg/l Pimephales prometas (Fathead minnow)           LC50 - Fish [2]         51600 mg/l Oncorhynchus mykiss (Rainbow trout)           LC50 - Fish [2]         19300 mg/l Skeletonema costatum (marine diatom)           EC50 72h - Algae [1]         19100 mg/l Skeletonema costatum (marine diatom)           EC50 96h - Algae [2]         24200 mg/l Pseudokirchnerielia subcapitata           EC50 96h - Algae [2]         19000 mg/l Pseudokirchnerielia subcapitata           EC50 96h - Algae [2]         19000 mg/l Pseudokirchnerielia subcapitata           Glycerin (56-81-5)           C509 - Crustacea [1]         54000 mg/l (96 h, Salmo gairdneri, Stalic system, Fresh water, Experimental value, Lethal)           EC50 - Crustacea [1]         > 10000 mg/l (96 h, Salmo gairdneri, Stalic system, Fresh water, Experimental value, Lethal)           EC50 - Crustacea [1]         > 10000 mg/l (96 h, Salmo gairdneri, Stalic system, Fresh water, Experimental value, Lethal)           EC50 - Crustacea [1]         > 10000 mg/l (96 h, Salmo gairdneri, Stalic system, Fresh water, Experimental value, Lethal)           EC50 - Crustacea [1]         11.12 mg/l Cnoorthynchus mykis (Rainbow trout)           EC50 - Crustacea [1]         11.12 mg/l Cnoorthynchus mykis (Rainbow trout)           EC50 - Crust	Ecology - general :	Toxic to aquatic life. Toxic to aquatic life with long lasting effects.	
EC50 - Crustacea [1]         43500 mg/l           LC50 - Fish [2]         51600 mg/l Oncorhynchus mykiss (Rainbow trout)           EC50 72h - Algae [1]         19300 mg/l Skeletonema costatum (marine diatom)           EC50 72h - Algae [2]         24200 mg/l Skeletonema costatum (marine diatom)           EC50 96h - Algae [1]         19100 mg/l Skeletonema costatum (marine diatom)           EC50 96h - Algae [2]         19000 mg/l Skeletonema costatum (marine diatom)           EC50 96h - Algae [2]         19000 mg/l Skeletonema costatum (marine diatom)           EC50 97h - Algae [2]         19000 mg/l Skeletonema costatum (marine diatom)           EC50 97h - Algae [2]         19000 mg/l Skeletonema costatum (marine diatom)           EC50 97h - Algae [2]         40000 mg/l Skeletonema costatum (marine diatom)           EC50 97h - Algae [1]         54000 mg/l Skeletonema costatum (marine diatom)           EC50 97h - Algae [1]         54000 mg/l Skeletonema costatum (marine diatom)           EC50 97h - Algae [1]         54000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Lethal)           EC50 97h - Algae [1]         510000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Lethal)           EC50 97h - Algae [1]         51112 mg/l Oncorhynchus mykiss (Rainbow trout)           EC50 97h - Algae [1]         528 mg/l Daphnia magna (Water flea)           EC50 97h - Algae [1]         47 μg/	Propylene glycol (57-55-6)		
LC50 - Fish [2]         51600 mg/l Oncorhynchus mykiss (Rainbow trout)           EC50 72h - Algae [1]         19300 mg/l Skeletonema costatum (marine diatom)           EC50 72h - Algae [2]         24200 mg/l Pseudokirchneriella subcapitata           EC50 96h - Algae [1]         19100 mg/l Skeletonema costatum (marine diatom)           EC50 96h - Algae [2]         19000 mg/l Pseudokirchneriella subcapitata           Glycerin (56-81-5)           LC50 - Fish [1]         54000 mg/l (96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Lethal)           EC50 - Crustacea [1]         >100000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)           EC50 - Other aquatic organisms [1]         > 100000 mg/l waterflea           EC50 - Other aquatic organisms [2]         > 100000 mg/l           Zince gluconate (4468-02-4)           LC50 - Fish [1]         11.12 mg/l Oncorhynchus mykiss (Rainbow trout)           EC50 - Crustacea [1]         22.8 mg/l Daphnia magna (Water flea)           EC50 - Crustacea [1]         0.26 mg/l Pseudokirchneriella subcapitata           NOEC orfonic aligae         0.01 mg/l           Silver (7440-22-4)         24.7 μg/l Test organisms (species): Pimephales promelas           LC50 - Fish [1]         47. μg/l Test organisms (species): Pimephales promelas           LC50 - Fish [1]         60.2 mg/l	LC50 - Fish [1]	51400 mg/l Pimephales promelas (Fathead minnow)	
EC50 72h - Algae [1]         19300 mg/l Skeletonema costatum (marine diatom)           EC50 72h - Algae [2]         24200 mg/l Pseudokirchneriella subcapitata           EC50 96h - Algae [1]         19100 mg/l Skeletonema costatum (marine diatom)           EC50 96h - Algae [2]         19000 mg/l Pseudokirchneriella subcapitata           Glycerin (56-81-5)           LC50 - Fish [1]         54000 mg/l (96 h. Salmo gairdneri, Static system, Fresh water, Experimental value, Lethal)           EC50 - Crustacea [1]         > 10000 mg/l (96 h. Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)           EC50 - Other aquatic organisms [1]         > 10000 mg/l waterflea           EC50 - Other aquatic organisms [2]         > 10000 mg/l           Zince gluconate (4468-02-4)           LC50 - Fish [1]         11.12 mg/l Oncorhynchus mykiss (Rainbow trout)           EC50 - Crustacea [1]         2.2 8 mg/l Daphnia magna (Water flea)           EC50 - Crustacea [1]         0.2 mg/l Pseudokirchneriella subcapitata           NOEC chronic algae         0.0 1 mg/l           Silver (7440-22-4)         V           LC50 - Fish [1]         4.7 µg/l Test organisms (species): Pimephales promelas           LC50 - Fish [2]         8.9 µg/l Test organisms (species): Pimephales promelas           LC50 - Fish [1]         60 2 mg/l           EC50 - Crustacea [1]	EC50 - Crustacea [1]	43500 mg/l	
EC50 72h - Algae [2]         24200 mg/l Pseudokirchneriella subcapitata           EC50 96h - Algae [1]         19100 mg/l Skeletonema costatum (marine diatom)           EC50 96h - Algae [2]         19000 mg/l Pseudokirchneriella subcapitata           Glycerin (56-81-5)           LC50 - Fish [1]         \$4000 mg/l (96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Lethal)           EC50 - Crustacea [1]         > 10000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)           EC50 - Other aquatic organisms [1]         > 10000 mg/l waterflea           EC50 - Other aquatic organisms [2]         > 10000 mg/l waterflea           EC50 - Other aquatic organisms [2]           EC50 - Other aquatic organisms [2]           EC50 - Other aquatic organisms [2]           11.2 mg/l Oncorhynchus mykiss (Rainbow trout)           EC50 - Other aquatic organisms [2]           11.2 mg/l Oncorhynchus mykiss (Rainbow trout)           EC50 - Other aquatic organisms [2]           11.2 mg/l Oncorhynchus mykiss (Rainbow trout)           EC50 - Other aquatic organisms [2]           2.2 mg/l Pseudokirchneriella subcapitata           NoEC5 - Fish [1]         4.7 µg/l Test organisms (species): Pimephales promelas           2.2 mg/l	LC50 - Fish [2]	51600 mg/l Oncorhynchus mykiss (Rainbow trout)	
EC50 96h - Algae [1]         19100 mg/l Skeletonema costatum (marine diatom)           EC50 96h - Algae [2]         19000 mg/l Pseudokirchneriella subcapitata           Glycerin (56-81-5)           LC50 - Fish [1]         \$4000 mg/l (96 h. Salmo gairdneri, Static system, Fresh water, Experimental value, Lethal)           EC50 - Crustacea [1]         > 10000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Lethal)           EC50 - Other aquatic organisms [1]         > 10000 mg/l waterflea           EC50 - Other aquatic organisms [2]         > 10000 mg/l waterflea           Zinc gluconate (4468-02-4)           LC50 - Fish [1]         11.12 mg/l Oncorhynchus mykiss (Rainbow trout)           EC50 - Crustacea [1]         2.28 mg/l Daphnia magna (Water flea)           EC50 - Crustacea [1]         2.28 mg/l Pseudokirchneriella subcapitata           NOEC chronic algae         0.01 mg/l           Silver (7440-22-4)           LC50 - Fish [1]         4.7 µg/l Test organisms (species): Pimephales promelas           LC50 - Fish [2]         89.4 µg/l Test organisms (species): Pimephales promelas           3-(2-Ethylhexyloxy)propane-1,2-diol (70445-3-3-4)           LC50 - Fish [1]         60.2 mg/l           EC50 - Crustacea [1]         84.3 mg/l           EC50 - Fish [1]         84.3 mg/l <td co<="" td=""><td>EC50 72h - Algae [1]</td><td>19300 mg/l Skeletonema costatum (marine diatom)</td></td>	<td>EC50 72h - Algae [1]</td> <td>19300 mg/l Skeletonema costatum (marine diatom)</td>	EC50 72h - Algae [1]	19300 mg/l Skeletonema costatum (marine diatom)
EC50 96h - Algae [2]         19000 mg/l Pseudokirchneriella subcapitata           Glycerin (56-81-5)           LC50 - Fish [1]         54000 mg/l (96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Lethal)           EC50 - Crustacea [1]         > 10000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)           EC50 - Other aquatic organisms [1]         > 10000 mg/l waterflea           EC50 - Other aquatic organisms [2]         > 10000 mg/l           Zinc gluconate (4468-02-4)           LC50 - Fish [1]         11.12 mg/l Oncorhynchus mykiss (Rainbow trout)           EC50 - Crustacea [1]         22.8 mg/l Daphnia magna (Water flea)           EC50 - Crustacea [1]         0.26 mg/l Pseudokirchneriella subcapitata           NOEC chronic algae         0.01 mg/l           Silver (7440-22-4)           LC50 - Fish [1]         4.7 μg/l Test organisms (species): Pimephales promelas           LC50 - Fish [2]         89.4 μg/l Test organisms (species): Pimephales promelas           3-(2-Ethylhexyloxy)propane-1,2-diol (70445-33-9)           LC50 - Fish [1]         84.3 mg/l           EC50 - Crustacea [1]         78.3 mg/l           EC50 - Fish [1]         84.3 mg/l           2-Phenoxyethanol (122-99-6)           LC50 - Fish [1]         344 mg/l Pimephales promela	EC50 72h - Algae [2]	24200 mg/l Pseudokirchneriella subcapitata	
Clycerin (56-81-5)	EC50 96h - Algae [1]	19100 mg/l Skeletonema costatum (marine diatom)	
LC50 - Fish [1]         54000 mg/l (96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Lethal)           EC50 - Crustacea [1]         > 10000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)           EC50 - Other aquatic organisms [1]         > 10000 mg/l waterflea           EC50 - Other aquatic organisms [2]         > 10000 mg/l           Zinc gluconate (4468-02-4)           LC50 - Fish [1]         11.12 mg/l Oncorhynchus mykiss (Rainbow trout)           EC50 - Crustacea [1]         22.8 mg/l Daphnia magna (Water flea)           EC50 - Crustacea [1]         0.26 mg/l Pseudokirchneriella subcapitata           NOEC chronic algae         0.01 mg/l           Silver (7440-22-4)           LC50 - Fish [1]         4.7 µg/l Test organisms (species): Pimephales promelas           LC50 - Fish [2]         89.4 µg/l Test organisms (species): Pimephales promelas           3-(2-Ethylhexyloxy)propane-1,2-diol (70445-33-y)           LC50 - Fish [1]         60.2 mg/l           EC50 - Crustacea [1]         78.3 mg/l           EC50 - Crustacea [1]         84.3 mg/l           2-Phenoxyethanol (122-99-6)           LC50 - Fish [1]         344 mg/l Pimephales promelas (Fathead minnow)           EC50 - Crustacea [1]         > 500 mg/l Daphnia magna (Water flea)           EC50 - Crusta	EC50 96h - Algae [2]	19000 mg/l Pseudokirchneriella subcapitata	
\$10000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)   \$2000 comptor effect)   \$2000 mg/l waterflea	Glycerin (56-81-5)		
ECSO - Other aquatic organisms [1]         > 10000 mg/l waterflea           ECSO - Other aquatic organisms [2]         > 10000 mg/l           Zinc gluconate (4468-02-4)           LC50 - Fish [1]         11.12 mg/l Oncorhynchus mykiss (Rainbow trout)           ECS0 - Crustacea [1]         22.8 mg/l Daphnia magna (Water flea)           ECS0 72h - Algae [1]         0.26 mg/l Pseudokirchneriella subcapitata           NOEC chronic algae         0.01 mg/l           Silver (7440-22-4)           LC50 - Fish [1]         4.7 µg/l Test organisms (species): Pimephales promelas           LC50 - Fish [2]         89.4 µg/l Test organisms (species): Pimephales promelas           3-(2-Ethylhexyloxy)propane-1,2-diol (70445-33-y-)           LC50 - Fish [1]         60.2 mg/l           EC50 - Crustacea [1]         78.3 mg/l           EC50 - Testacea [1]         84.3 mg/l           2-Phenoxyethanol (122-99-6)           LC50 - Fish [1]         344 mg/l Pimephales promelas (Fathead minnow)           EC50 - Crustacea [1]         > 500 mg/l Daphnia magna (Water flea)           EC50 72h - Algae [1]         > 100 mg/l	LC50 - Fish [1]	54000 mg/l (96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Lethal)	
Silver (7440-22-4)   LC50 - Fish [1]   1.12 mg/l Oncorhynchus mykiss (Rainbow trout)   C50 - Fish [2]   2.8 mg/l Daphnia magna (Water flea)   C50 - Crustacea [1]   2.2 mg/l Daphnia magna (Water flea)   C50 - Crustacea [1]   0.26 mg/l Pseudokirchneriella subcapitata   NOEC chronic algae   0.01 mg/l	EC50 - Crustacea [1]		
Control   Con	EC50 - Other aquatic organisms [1]	> 10000 mg/l waterflea	
LC50 - Fish [1]       11.12 mg/l Oncorhynchus mykiss (Rainbow trout)         EC50 - Crustacea [1]       22.8 mg/l Daphnia magna (Water flea)         EC50 72h - Algae [1]       0.26 mg/l Pseudokirchneriella subcapitata         NOEC chronic algae       0.01 mg/l         Silver (7440-22-4)         LC50 - Fish [1]       4.7 μg/l Test organisms (species): Pimephales promelas         LC50 - Fish [2]       89.4 μg/l Test organisms (species): Pimephales promelas         3-(2-Ethylhexyloxy)propane-1,2-diol (70445-33-9)         LC50 - Fish [1]       60.2 mg/l         EC50 - Crustacea [1]       78.3 mg/l         EC50 - Crustacea [1]       84.3 mg/l         2-Phenoxyethanol (122-99-6)         LC50 - Fish [1]       344 mg/l Pimephales promelas (Fathead minnow)         EC50 - Crustacea [1]       > 500 mg/l Daphnia magna (Water flea)         EC50 72h - Algae [1]       > 100 mg/l	EC50 - Other aquatic organisms [2]	> 10000 mg/l	
EC50 - Crustacea [1] 22.8 mg/l Daphnia magna (Water flea)  EC50 72h - Algae [1] 0.26 mg/l Pseudokirchneriella subcapitata  NOEC chronic algae 0.01 mg/l  Silver (7440-22-4)  LC50 - Fish [1] 4.7 μg/l Test organisms (species): Pimephales promelas  LC50 - Fish [2] 89.4 μg/l Test organisms (species): Pimephales promelas  3-(2-Ethylhexyloxy)propane-1,2-diol (70445-33-9)  LC50 - Fish [1] 60.2 mg/l  EC50 - Crustacea [1] 78.3 mg/l  EC50 72h - Algae [1] 84.3 mg/l  2-Phenoxyethanol (122-99-6)  LC50 - Fish [1] 344 mg/l Pimephales promelas (Fathead minnow)  EC50 - Crustacea [1] > 500 mg/l Daphnia magna (Water flea)  EC50 72h - Algae [1] > 100 mg/l	Zinc gluconate (4468-02-4)		
EC50 72h - Algae [1] 0.26 mg/l Pseudokirchneriella subcapitata  NOEC chronic algae 0.01 mg/l  Silver (7440-22-4)  LC50 - Fish [1] 4.7 µg/l Test organisms (species): Pimephales promelas  LC50 - Fish [2] 89.4 µg/l Test organisms (species): Pimephales promelas  3-(2-Ethylhexyloxy)propane-1,2-diol (70445-33-9)  LC50 - Fish [1] 60.2 mg/l  EC50 - Crustacea [1] 78.3 mg/l  EC50 - Crustacea [1] 84.3 mg/l  2-Phenoxyethanol (122-99-6)  LC50 - Fish [1] 344 mg/l Pimephales promelas (Fathead minnow)  EC50 - Crustacea [1] > 500 mg/l Daphnia magna (Water flea)  EC50 - Crustacea [1] > 100 mg/l	LC50 - Fish [1]	11.12 mg/l Oncorhynchus mykiss (Rainbow trout)	
NOEC chronic algae       0.01 mg/l         Silver (7440-22-4)         LC50 - Fish [1]       4.7 μg/l Test organisms (species): Pimephales promelas         LC50 - Fish [2]       89.4 μg/l Test organisms (species): Pimephales promelas         3-(2-Ethylhexyloxy)propane-1,2-diol (70445-33-9)         LC50 - Fish [1]       60.2 mg/l         EC50 - Crustacea [1]       78.3 mg/l         EC50 72h - Algae [1]       84.3 mg/l         2-Phenoxyethanol (122-99-6)         LC50 - Fish [1]       344 mg/l Pimephales promelas (Fathead minnow)         EC50 - Crustacea [1]       > 500 mg/l Daphnia magna (Water flea)         EC50 72h - Algae [1]       > 100 mg/l	EC50 - Crustacea [1] 22.8 mg/l Daphnia magna (Water flea)		
Silver (7440-22-4)           LC50 - Fish [1]         4.7 µg/l Test organisms (species): Pimephales promelas           LC50 - Fish [2]         89.4 µg/l Test organisms (species): Pimephales promelas           3-(2-Ethylhexyloxy)propane-1,2-diol (70445-33-y)            LC50 - Fish [1]         60.2 mg/l           EC50 - Crustacea [1]         78.3 mg/l           EC50 72h - Algae [1]         84.3 mg/l           2-Phenoxyethanol (122-99-6)           LC50 - Fish [1]         344 mg/l Pimephales promelas (Fathead minnow)           EC50 - Crustacea [1]         > 500 mg/l Daphnia magna (Water flea)           EC50 72h - Algae [1]         > 100 mg/l	EC50 72h - Algae [1] 0.26 mg/l Pseudokirchneriella subcapitata		
LC50 - Fish [1]       4.7 μg/l Test organisms (species): Pimephales promelas         LC50 - Fish [2]       89.4 μg/l Test organisms (species): Pimephales promelas         3-(2-Ethylhexyloxy)propane-1,2-diol (70445-33-9)         LC50 - Fish [1]       60.2 mg/l         EC50 - Crustacea [1]       78.3 mg/l         EC50 72h - Algae [1]       84.3 mg/l         2-Phenoxyethanol (122-99-6)         LC50 - Fish [1]       344 mg/l Pimephales promelas (Fathead minnow)         EC50 - Crustacea [1]       > 500 mg/l Daphnia magna (Water flea)         EC50 72h - Algae [1]       > 100 mg/l	NOEC chronic algae	0.01 mg/l	
LC50 - Fish [2] 89.4 µg/l Test organisms (species): Pimephales promelas  3-(2-Ethylhexyloxy)propane-1,2-diol (70445-33-y)  LC50 - Fish [1] 60.2 mg/l  EC50 - Crustacea [1] 78.3 mg/l  EC50 72h - Algae [1] 84.3 mg/l  2-Phenoxyethanol (122-99-6)  LC50 - Fish [1] 344 mg/l Pimephales promelas (Fathead minnow)  EC50 - Crustacea [1] > 500 mg/l Daphnia magna (Water flea)  EC50 72h - Algae [1] > 100 mg/l	Silver (7440-22-4)		
3-(2-Ethylhexyloxy)propane-1,2-diol (70445-33-9)  LC50 - Fish [1] 60.2 mg/l  EC50 - Crustacea [1] 78.3 mg/l  EC50 72h - Algae [1] 84.3 mg/l  2-Phenoxyethanol (122-99-6)  LC50 - Fish [1] 344 mg/l Pimephales promelas (Fathead minnow)  EC50 - Crustacea [1] > 500 mg/l Daphnia magna (Water flea)  EC50 72h - Algae [1] > 100 mg/l	LC50 - Fish [1]	4.7 μg/l Test organisms (species): Pimephales promelas	
LC50 - Fish [1]       60.2 mg/l         EC50 - Crustacea [1]       78.3 mg/l         EC50 72h - Algae [1]       84.3 mg/l         2-Phenoxyethanol (122-99-6)         LC50 - Fish [1]       344 mg/l Pimephales promelas (Fathead minnow)         EC50 - Crustacea [1]       > 500 mg/l Daphnia magna (Water flea)         EC50 72h - Algae [1]       > 100 mg/l	LC50 - Fish [2]	89.4 μg/l Test organisms (species): Pimephales promelas	
EC50 - Crustacea [1] 78.3 mg/l  EC50 72h - Algae [1] 84.3 mg/l  2-Phenoxyethanol (122-99-6)  LC50 - Fish [1] 344 mg/l Pimephales promelas (Fathead minnow)  EC50 - Crustacea [1] > 500 mg/l Daphnia magna (Water flea)  EC50 72h - Algae [1] > 100 mg/l	3-(2-Ethylhexyloxy)propane-1,2-diol (70445-33	G-9)	
EC50 72h - Algae [1] 84.3 mg/l  2-Phenoxyethanol (122-99-6)  LC50 - Fish [1] 344 mg/l Pimephales promelas (Fathead minnow)  EC50 - Crustacea [1] > 500 mg/l Daphnia magna (Water flea)  EC50 72h - Algae [1] > 100 mg/l	LC50 - Fish [1]	60.2 mg/l	
2-Phenoxyethanol (122-99-6)           LC50 - Fish [1]         344 mg/l Pimephales promelas (Fathead minnow)           EC50 - Crustacea [1]         > 500 mg/l Daphnia magna (Water flea)           EC50 72h - Algae [1]         > 100 mg/l	EC50 - Crustacea [1]	78.3 mg/l	
LC50 - Fish [1]  344 mg/l Pimephales promelas (Fathead minnow)  EC50 - Crustacea [1]  > 500 mg/l Daphnia magna (Water flea)  > 100 mg/l	EC50 72h - Algae [1]	84.3 mg/l	
EC50 - Crustacea [1] > 500 mg/l Daphnia magna (Water flea) EC50 72h - Algae [1] > 100 mg/l	2-Phenoxyethanol (122-99-6)		
EC50 72h - Algae [1] > 100 mg/l	LC50 - Fish [1]	344 mg/l Pimephales promelas (Fathead minnow)	
	EC50 - Crustacea [1]	> 500 mg/l Daphnia magna (Water flea)	
NOEC (chronic) 9.43 mg/l	EC50 72h - Algae [1]	> 100 mg/l	
	NOEC (chronic)	9.43 mg/l	

Creator	Controller	Approvers	
Victor Vides Regulatory Manager	Victor Vides Regulatory Manager	Michael Carlson - Director of Quality Audra Mulligan - Regulatory Director	



# **SAFETY DATA SHEET**

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# 2-Phenoxyethanol (122-99-6)

NOEC chronic fish 23 mg/l

# 12.2. Persistence and degradability

Silver Honey® Rapid Wound Repair Spray		
Persistence and degradability	Rapidly degradable	
Propylene glycol (57-55-6)		
Persistence and degradability	Readily biodegradable.	
Glycerin (56-81-5)		
Persistence and degradability	Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	0.87 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD)	1.16 g O <sub>2</sub> /g substance	
ThOD	1.217 g O₂/g substance	
BOD (% of ThOD)	0.71	
Zinc gluconate (4468-02-4)		
Persistence and degradability	Readily biodegradable.	
Silver (7440-22-4)		
Persistence and degradability	Not rapidly degradable	
3-(2-Ethylhexyloxy)propane-1,2-diol (70445-33-9)		
Persistence and degradability	Rapidly degradable	
2-Phenoxyethanol (122-99-6)		
Persistence and degradability	Readily biodegradable.	

# 12.3. Bioaccumulative potential

Propylene glycol (57-55-6)		
Partition coefficient n-octanol/water (Log Pow)	-0.92	
Bioaccumulative potential Low bioaccumulation potential.		
Glycerin (56-81-5)		
Partition coefficient n-octanol/water (Log Pow) -1.75 (Experimental value, Equivalent or similar to OECD 107, 25 °C)		
Bioaccumulative potential	Not bioaccumulative.	

# 12.4. Mobility in soil

Glycerin (56-81-5)		
Surface tension 0.0634 N/m (20 °C, 1000 g/l)		
Ecology - soil	No (test)data on mobility of the substance available.	

Creator	Controller	Approvers
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Regulatory Manager	Regulatory Manager	Audra Mulligan - Regulatory Director



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# 12.5. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Waste treatment methods

: Dispose of in accordance with applicable federal, state, and local regulations.

# **SECTION 14: Transport information**

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA	
14.1. UN number	I4.1. UN number			
Not regulated for transport				
14.2. Proper Shipping Name				
Not regulated	Not regulated	Not regulated	Not regulated	
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	
14.4. Packing group	14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated	
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	
Note: Inner packages containing net quantities of less than 5 kg/5 L are exempt per IMDG Code 2.10.2.7 and ICAO Special Provision A197.				

# 14.6. Special precautions for user

#### DOT

Not regulated

#### TDC

Not regulated

#### IMDG

Not regulated

# IATA

Not regulated

# 14.7. Transport in bulk according to IMO instruments

Not applicable

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## **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### Silver Honey® Rapid Wound Repair Spray

SARA Section 311/312 Hazard Classes

Refer to Section 2 for OSHA Hazard Classification.

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### Silver (7440-22-4)

CERCLA RQ

1000 lb

#### 15.2. International regulations

#### **CANADA**

#### Propylene glycol (57-55-6)

Listed on the Canadian DSL (Domestic Substances List)

#### Glycerin (56-81-5)

Listed on the Canadian DSL (Domestic Substances List)

### **Zinc gluconate (4468-02-4)**

Listed on the Canadian DSL (Domestic Substances List)

#### Silver (7440-22-4)

Listed on the Canadian DSL (Domestic Substances List)

#### 3-(2-Ethylhexyloxy)propane-1,2-diol (70445-33-9)

Listed on the Canadian DSL (Domestic Substances List)

## 2-Phenoxyethanol (122-99-6)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

#### Silver Honey® Rapid Wound Repair Spray

Listed on the Canadian DSL (Domestic Substances List)

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#### **Zinc gluconate (4468-02-4)**

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### Silver (7440-22-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### 3-(2-Ethylhexyloxy)propane-1,2-diol (70445-33-9)

All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Propylene glycol(57-55-6)	U.S New Jersey - Right to Know Hazardous Substance List
Glycerin(56-81-5)	U.S New Jersey - Right to Know Hazardous Substance List
Silver(7440-22-4)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S New Jersey - Right to Know Hazardous Substance List

#### **SECTION 16: Other information**

According to 29CFR 1910.1200 OSHA Hazard Communication Standard

Safety Data Sheet (SDS), USA

WF Young, Inc. urges each customer or recipient of this Safety Data Sheet to study it carefully and consult, if necessary or appropriate, experts in the field to be aware of the information contained in this SDS and any hazards associated with this product and understand them. Information herein is provided in good faith and believed to be accurate as of the date shown above. However, no warranty is given, either expressed or implied. The Regulatory requirements are subject to change and may vary by location. There is the responsibility of the purchaser / user to ensure that its activities comply with legislation. The information presented here pertains only to the product as shipped. The terms of use of the product are not under the control of the manufacturer, it is the duty of the purchaser / user to determine the conditions necessary for the safe use of this product. Due to the proliferation of information sources such as the Data Sheets (MSDS) specific to a manufacturer, we are not responsible and cannot be held accountable for SDSs obtained from any source other than ourselves. If you obtained an SDS from another source or if you are worried that your SDS is outdated, please contact us for the latest version.

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Regulatory Manager	Regulatory Manager	Audra Mulligan - Regulatory Director