

# SAFETY DATA SHEET

**Issue Date** 16-Aug-2018 **Revision Date** 26-Jan-2024 **Version** 1.6 **Page** 1 / 15

## 1. IDENTIFICATION

**Product identifier** 

Product Name Silver 2 Reagent Solution Pillows

Other means of identification

Product Code(s) 2293666

Safety data sheet number M00161

Recommended use of the chemical and restrictions on use

**Recommended Use** Laboratory Use. Determination of silver.

Uses advised against None. Restrictions on use None.

Details of the supplier of the safety data sheet

**Manufacturer Address** 

Hach Company, P.O.Box 389, Loveland, CO 80539, USA, +1(970) 669-3050

Emergency telephone number

+1(303) 623-5716 - 24 Hour Service

## 2. HAZARDS IDENTIFICATION

### Classification

## **Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3

## Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Signal word

Danger

EN / AGHS Page 1/15

Product Name Silver 2 Reagent Solution Pillows

Revision Date 26-Jan-2024

Page 2/15



### **Hazard statements**

H227 - Combustible liquid

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H360 - May damage fertility or the unborn child

## **Precautionary statements**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P332 + P313 - If skin irritation occurs: Get medical attention

P362 - Take off contaminated clothing and wash before reuse

P280 - Wear protective gloves, protective clothing, eye protection, and face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical attention

P201 - Obtain special instructions before use

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P271 - Use only outdoors or in a well-ventilated area

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 - Call a POISON CENTER or doctor if you feel unwell

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

P403 + P235 - Store in a well-ventilated place. Keep cool

### Other Hazards Known

May be harmful if swallowed

May be harmful in contact with skin

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not applicable

### **Mixture**

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No	Percent Range	HMRIC #
1-Methyl-2-pyrrolidone	872-50-4	70 - 80%	-
Polyoxyethylene sorbitan monolaurate	9005-64-5	20 - 30%	-

## 4. FIRST AID MEASURES

## **Description of first aid measures**

EN / AGHS Page 2/15

Product Name Silver 2 Reagent Solution Pillows

Revision Date 26-Jan-2024

**Page** 3 / 15

Show this safety data sheet to the doctor in attendance. **General advice** 

Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical Inhalation

attention immediately if symptoms occur.

Eve contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

> eve wide open while rinsing. Do not rub affected area, Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes. Get medical attention if irritation develops and persists.

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Ingestion

Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or

clothing.

Most important symptoms and effects, both acute and delayed

**Symptoms** Burning sensation.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Note to physicians

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

**Unsuitable Extinguishing Media** Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

Keep product and empty container away from heat and sources of ignition. In the event of

fire, cool tanks with water spray.

**Hazardous combustion products** May emit toxic and corrosive fumes. Nitrogen oxides. Carbon monoxide, Carbon dioxide.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**U.S. Notice** Only persons properly qualified to respond to an emergency involving hazardous

substances may respond to a spill according to federal regulations (OSHA 29 CFR

1910.120(a)(v)) and per your company's emergency response plan and

guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should

respond to a spill involving chemicals.

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Use personal protective equipment as required. See Personal precautions

> section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Ensure adequate ventilation. Avoid contact with

skin, eyes or clothing.

Other Information Refer to protective measures listed in Sections 7 and 8.

EN / AGHS Page 3 / 15

Product Name Silver 2 Reagent Solution Pillows

Revision Date 26-Jan-2024

**Page** 4 / 15

Environmental precautions

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if **Environmental precautions** 

safe to do so.

Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far

ahead of liquid spill for later disposal.

Take precautionary measures against static discharges. Dam up. Soak up with inert Methods for cleaning up

absorbent material. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up

mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections See section 8 for more information. See section 13 for more information.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot

surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse. In case of

insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, **Storage Conditions** 

sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store locked up. Store in accordance with

particular national and local regulations.

Flammability class Class IIIA

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational **Exposure Guidelines** 

exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

**Engineering Controls** 

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Wear suitable gloves. Impervious gloves. Barrier creams may help to protect the exposed **Hand Protection** 

areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to

EN / AGHS Page 4 / 15

Product Name Silver 2 Reagent Solution Pillows

Revision Date 26-Jan-2024

**Page** 5 / 15

satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN

374-1:2016.

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Avoid contact with eyes, skin and

clothing.

General Hygiene Considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained. Do not allow

into any sewer, on the ground or into any body of water.

Thermal hazards None under normal processing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state

Liquid

Appearance Odor

aqueous solution Mild amine

Color yellow

Odor threshold No data available

Property Values Remarks • Method

Molecular weight No data available

**pH** 10.0 @ 20 °C

Melting point / freezing point No data available

Initial boiling point and boiling range 185 °C / 365 °F

**Evaporation rate** 0.08 (water = 1)

**Vapor pressure** 0.75 mm Hg / 0.1 kPa at 20 °C / 68 °F

Relative vapor density

No data available

Specific gravity - VALUE 1 1.10

Partition coefficient Not applicable

**Soil Organic Carbon-Water Partition** 

Coefficient

Not applicable

Autoignition temperature No data available

**Decomposition temperature**No data available

Dynamic viscosity

No data available

Kinematic viscosity No data available

Solubility(ies)

Water solubility

EN / AGHS Page 5/15

**Product Name** Silver 2 Reagent Solution Pillows **Revision Date** 26-Jan-2024

**Page** 6 / 15

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

## Solubility in other solvents

Chemical Name_	Solubility classification	<u>Solubility</u>	Solubility Temperature_
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

## **Other information**

## **Metal Corrosivity**

Steel Corrosion Rate Aluminum Corrosion Rate No data available No data available

## **Volatile Organic Compounds (VOC) Content**

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
1-Methyl-2-pyrrolidone	872-50-4	No data available	-
Polyoxyethylene sorbitan monolaurate	9005-64-5	No data available	_

## **Explosive properties**

Upper explosion limitNo data availableLower explosion limitNo data available

## Flammable properties

Flash point 88 °C / 190.4 °F Method CC (closed cup)

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
No data available
No data available

Oxidizing properties
No data available.

Bulk density
No data available

## 10. STABILITY AND REACTIVITY

### Reactivity

Not applicable.

## **Chemical stability**

Stable under normal conditions.

## **Explosion data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

### Possibility of hazardous reactions

None under normal processing.

EN / AGHS Page 6/15

Product Code(s) 2293666 Issue Date 16-Aug-2018

Version 1.6

Product Name Silver 2 Reagent Solution Pillows

Revision Date 26-Jan-2024

**Page** 7 / 15

### **Hazardous polymerization**

None under normal processing.

## Conditions to avoid

Heat, flames and sparks.

## Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

## Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Nitrogen oxides.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

### **Product Information**

**Inhalation** May cause irritation of respiratory tract.

**Eye contact** Irritating to eyes. Causes serious eye irritation.

**Skin contact** Causes skin irritation.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Symptoms** Redness. May cause redness and tearing of the eyes.

### Acute toxicity

Based on available data, the classification criteria are not met

#### Mixture

No data available.

### **Ingredient Acute Toxicity Data**

Test data reported below.

## **Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
1-Methyl-2-pyrrolidon e (70 - 80%) CAS#: 872-50-4	Rat LD <sub>50</sub>	3598 mg/kg	None reported	None reported	IUCLID
Polyoxyethylene sorbitan monolaurate (20 - 30%) CAS#: 9005-64-5	Rat LD <sub>50</sub>	36700 mg/kg	None reported	None reported	RTECS

## **Dermal Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
1-Methyl-2-pyrrolidon		2500 mg/kg	None reported	None reported	IUCLID
e (70 - 80%)	LD <sub>50</sub>				
CAS#: 872-50-4					

## Inhalation (Dust/Mist) Exposure Route

EN / AGHS Page 7/15

**Product Name** Silver 2 Reagent Solution Pillows **Revision Date** 26-Jan-2024

**Page** 8 / 15

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
1-Methyl-2-pyrrolidon e (70 - 80%) CAS#: 872-50-4	Rat LC₅o	> 5.1 mg/L	4 hours	None reported	IUCLID

## **Unknown Acute Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity.

## **Acute Toxicity Estimations (ATE)**

## The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	4,790.30 mg/kg			
ATEmix (dermal)	3,328.50 mg/kg			
ATEmix (inhalation-dust/mist)	No information available			
ATEmix (inhalation-vapor)	No information available			
ATEmix (inhalation-gas)	No information available			

### Skin corrosion/irritation

Classification based on data available for ingredients. Irritating to skin.

## **Mixture**

No data available.

## Ingredient Skin Corrosion/Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
1-Methyl-2-pyrrolidon e (70 - 80%) CAS#: 872-50-4	Standard Draize Test	Rabbit	None reported	None reported	Mild skin irritant	ECHA
Polyoxyethylene sorbitan monolaurate (20 - 30%) CAS#: 9005-64-5	Standard Draize Test	Human	15 mg	72 hours	Mild skin irritant	RTECS

## Serious eye damage/irritation

Classification based on data available for ingredients. Irritating to eyes.

## Mixture

No data available.

## Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
1-Methyl-2-pyrrolidon e (70 - 80%) CAS#: 872-50-4	Standard Draize Test	Rabbit	100 mg	None reported	Eye irritant	RTECS
Polyoxyethylene sorbitan monolaurate (20 - 30%)	Standard Draize Test	Rabbit	0.1 mL	2 seconds	Not corrosive or irritating to eyes	ECHA

EN / AGHS Page 8/15

**Product Name** Silver 2 Reagent Solution Pillows **Revision Date** 26-Jan-2024

**Page** 9/15

CAS#: 9005-64-5		
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## Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

#### **Mixture**

No data available.

### **Ingredient Sensitization Data**

Test data reported below.

## **Skin Sensitization Exposure Route**

Chemical name	Test method	Species	Results	Key literature references and sources for data
1-Methyl-2-pyrrolidon	Patch test	Guinea pig	Not confirmed to be a skin sensitizer	IUCLID
е				
(70 - 80%)				
CAS#: 872-50-4				

## STOT - single exposure

May cause respiratory irritation.

#### Mixture

No data available.

## Ingredient Specific Target Organ Toxicity Single Exposure Data

No data available.

## **STOT - repeated exposure**

Based on available data, the classification criteria are not met.

### **Mixture**

No data available.

## Ingredient Specific Target Organ Toxicity Repeat Exposure Data

No data available.

## Carcinogenicity

Based on available data, the classification criteria are not met.

### **Mixture**

No data available.

### **Ingredient Carcinogenicity Data**

No data available.

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
1-Methyl-2-pyrrolidone	872-50-4	•	=	•	•
Polyoxyethylene sorbitan	9005-64-5	=	-	-	=
monolaurate					

## Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA	Does not apply

## **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

EN / AGHS Page 9/15

Product Name Silver 2 Reagent Solution Pillows Revision Date 26-Jan-2024 Page 10 / 15

Mixture invitro Data

No data available.

Substance invitro Data

Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Polyoxyethylene sorbitan monolaurate (20 - 30%) CAS#: 9005-64-5	Mutation in microorganisms	Mammalian cells - not specified	None reported	None reported	Negative	Vendor SDS

Mixture invivo Data

No data available.

Substance invivo Data

No data available.

Reproductive toxicity

Classification based on data available for ingredients. Contains a known or suspected reproductive toxin. The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

**Mixture** 

No data available.

**Ingredient Reproductive Toxicity Data** 

Test data reported below.

### Inhalation (Vapor) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
1-Methyl-2-pyrrolidon		150 mg/L	13 days	Effects on Newborn	RTECS
е	$TD_Lo$			Delayed effects	
(70 - 80%)				Growth statistics (e.g. stunted	
CAS#: 872-50-4				fetus)	

## **Aspiration hazard**

Based on available data, the classification criteria are not met.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Based on available data, the classification criteria are not met.

**Unknown aquatic toxicity** 0% of the mixture consists of components(s) of unknown hazards to the aquatic

environment.

**Mixture** 

**Aquatic Acute Toxicity** 

No data available.

**Aquatic Chronic Toxicity** 

No data available.

**Substance** 

**Aquatic Acute Toxicity** 

EN / AGHS Page 10/15

**Product Name** Silver 2 Reagent Solution Pillows **Revision Date** 26-Jan-2024

**Page** 11 / 15

Test data reported below.

## **Fish**

Chemical name	Exposure	Species		Reported dose	Key literature references and
	time		type		sources for data
1-Methyl-2-pyrrolidon	96 hours	Lepomis macrochirus	LC <sub>50</sub>	832 mg/L	IUCLID
е					
(70 - 80%)					
CAS#: 872-50-4					
Polyoxyethylene	96 hours	Salmo gairdneri	LC <sub>50</sub>	216 mg/L	EPA
sorbitan monolaurate					
(20 - 30%)					
CAS#: 9005-64-5					

## Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
1-Methyl-2-pyrrolidon e (70 - 80%) CAS#: 872-50-4	48 Hours	Daphnia magna	EC50	4897 mg/L	IUCLID
Polyoxyethylene sorbitan monolaurate (20 - 30%) CAS#: 9005-64-5	48 Hours	Artemia monica	LC <sub>50</sub>	1089.6 mg/L	Vendor SDS

## Algae

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
1-Methyl-2-pyrrolidon	72 Hours	Scenedesmus subspicatus	EC <sub>50</sub>	> 500 mg/L	IUCLID
e (70 - 80%) CAS#: 872-50-4					

## **Aquatic Chronic Toxicity**

No data available.

## Persistence and degradability

**Mixture** 

No data available.

**Bioaccumulation** 

MATERIAL DOES NOT BIOACCUMULATE

Mixture

No data available.

Partition coefficient Not applicable

**Mobility** 

Soil Organic Carbon-Water Partition Coefficient Not applicable

Other adverse effects No information available

## 13. DISPOSAL CONSIDERATIONS

EN / AGHS Page 11/15

Product Name Silver 2 Reagent Solution Pillows

Revision Date 26-Jan-2024

Page 12 / 15

### Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

Special instructions for disposal Incinerate material at an E.P.A. approved hazardous waste facility.

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

IATA Not regulated

IMDG Not regulated

### **Additional information**

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

## 15. REGULATORY INFORMATION

**National Inventories** 

TSCA Complies DSL/NDSL Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### **International Inventories**

**EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies Complies KECL **PICCS** Complies Complies TCSI Complies **AICS** Complies **NZIoC** 

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

**TCSI** - Taiwan Chemical Substances Inventory

**AICS** - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

## **US Federal Regulations**

EN / AGHS Page 12/15

Product Name Silver 2 Reagent Solution Pillows

Revision Date 26-Jan-2024

Page 13 / 15

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %		
1-Methyl-2-pyrrolidone (CAS #: 872-50-4)	1.0		

## SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

## **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## **US State Regulations**

## **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65		
1-Methyl-2-pyrrolidone (CAS #: 872-50-4)	Developmental		

**WARNING:** This product can expose you to chemicals including 1-Methyl-2-pyrrolidone, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to <a href="http://www.P65Warnings.ca.gov">http://www.P65Warnings.ca.gov</a>

### U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania
1-Methyl-2-pyrrolidone	X	X	Х
872-50-4			

### **U.S. EPA Label Information**

Chemical name	FIFRA	FDA
1-Methyl-2-pyrrolidone	180.0920	-

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

## **Special Comments**

None

### **Additional information**

EN / AGHS Page 13/15

Product Name Silver 2 Reagent Solution Pillows

Revision Date 26-Jan-2024

**Page** 14 / 15

## Global Automotive Declarable Substance List (GADSL)

Chemical name	Global Automotive Declarable Substance List Classifications	Global Automotive Declarable Substance List Thersholds
1-Methyl-2-pyrrolidone 872-50-4	Prohibited Substance (LR) Declarable Substance (LR)	0.3 %

### **NFPA and HMIS Classifications**

NFPA	Health hazards - 2	Flammability - 2	Instability - 0	Physical and chemical properties -
HMIS	Health hazards - 2	Flammability - 2	Physical hazards - 0	Personal protection - X - I

### Key or legend to abbreviations and acronyms used in the safety data sheet

**ACGIH** ACGIH (American Conference of Governmental Industrial Hygienists) **ATSDR** ATSDR (Agency for Toxic Substances and Disease Registry) CCRIS (Chemical Carcinogenesis Research Information System) **CCRIS** 

CDC (Center for Disease Control) CDC

**CEPA** CEPA (Canadian Environmental Protection Agency)

CICAD (Concise International Chemical Assessment Documents) CICAD

**ECHA** ECHA (The European Chemicals Agency) **EEA** EEA (European Environment Agency) **EPA** EPA (Environmental Protection Agency)

**ERMA** ERMA (New Zealands Environmental Risk Management Authority)

**ECOSARS** Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

FDA FDA (Food & Drug Administration)

GESTIS (Information System on Hazardous Substances of the German Social Accident **GESTIS** 

Insurance)

**HSDB** HSDB (Hazardous Substances Data Bank)

INERIS (The National Industrial Environment and Risks Institute) **INERIS** IPCS INCHEM (International Programme on Chemical Safety) **IPCS INCHEM** IUCLID (The International Uniform Chemical Information Database) **IUCLID** NITE Japan National Institute of Technology and Evaluation (NITE)

NIH (National Institutes of Health) NIH

NIOSH (National Institute for Occupational Safety and Health) NIOSH LOLI (List of Lists - An International Chemical Regulatory Database) LOLI

**NDF** 

**NICNAS** Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH IDLH Immediately Dangerous to Life or Health

OSHA (Occupational Safety and Health Administration of the US Department of Labor) **OSHA** 

**PEEN** PEEN (Pan European Ecological Network)

RTECS (Registry of Toxic Effects of Chemical Substances) **RTECS** SIDS (Screening Information Dataset) for High Volume Chemicals SIDS

The Finnish Environment Institute (SYKE) SYKE **USDA** USDA (United States Department of Agriculture) USDC (United States Department of Commerce) **USDC** 

WHO WHO (World Health Organization)

## Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**TWA** TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

MAC Maximum Allowable Concentration Ceiling Ceiling Limit Value

Listed Vacated These values have no official status. The only Χ

binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that

EN / AGHS Page 14/15

Product Name Silver 2 Reagent Solution Pillows

Revision Date 26-Jan-2024

Page 15 / 15

some reference state regulations of these "liberated" exposure limits in their state

regulations.

Skin designation Skin sensitization SKN\* SKN+ RSP+ Respiratory sensitization Hazard Designation Carcinogen R Reproductive toxicant C

Μ mutagen

**Prepared By** Hach Product Compliance Department

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**Revision Note** None

### Disclaimer

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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**End of Safety Data Sheet** 

EN / AGHS Page 15/15