

SAFETY DATA SHEET

Issue Date 18-07-2019	Revision Date 26-Jan-2024	Version 1.6	Page	1 / 15	
	1. IDENTIFICA	TION			
<u>Product identifier</u> Product Name	Silver 1 Reagent Powder Pillow	S			
Other means of identification Product Code(s)	2293566				
Safety data sheet number	M00171				
Recommended use of the che Recommended Use Uses advised against Restrictions on use	mical and restrictions on use Determination of silver. Water A None. None.	nalysis.			
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)

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

Product NameSilver 1 Reagent Powder PillowsRevision Date26-Jan-2024Page2 / 15



Hazard statements

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

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

P405 - Store locked up

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

Other Hazards Known

May be harmful in contact with skin

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

Chemical Family

Percent ranges are used where confidential product information is applicable.

Mixture.

Chemical name	CAS No	Percent Range	HMRIC #
Boron potassium oxide (B4K2O7)	1332-77-0	50 - 60%	-
Glycine, N,N-1,2-cyclohexanediylbis[N-(carboxymethyl)-, magnesium sodium salt (1:1:2)	63451-33-2	30 - 40%	-
Citric acid	77-92-9	1 - 5%	-
1-Triazene, 1-(4-nitro-1-naphthalenyl)-3-[4-(phenylazo)phenyl]-	6708-61-8	<0.1%	-

4. FIRST AID MEASURES

Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance.

Product Code(s) 2293566 Issue Date 18-07-2019 Version 1.6	Product Name Silver 1 Reagent Powder Pillows Revision Date 26-Jan-2024 Page 3 / 15			
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.			
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.			
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.			
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.			
Self-protection of the first aider	Avoid contact with skin, eyes or clothing.			
Most important symptoms and effe	ects, both acute and delayed			
Symptoms	Burning sensation.			
Indication of any immediate medica	al attention and special treatment needed			
Note to physicians	Treat symptomatically.			
	5. FIRE-FIGHTING MEASURES			
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
Unsuitable Extinguishing Media	Caution: Use of water spray when fighting fire may be inefficient.			
Specific hazards arising from the chemical	No information available.			
Hazardous combustion products	May emit acrid smoke and fumes. Potassium oxides. Sodium oxides. Boron compounds. Carbon monoxide, Carbon dioxide. Nitrogen oxides.			
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 en	quipment and emergency procedures			
Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.			
Other Information	Refer to protective measures listed in Sections 7 and 8.			
Environmental precautions				
Environmental precautions	Prevent further leakage or spillage if safe to do so.			
EN / AGHS	Page 3/15			

Product Name Silver 1 Reagent Powder Pillows Revision Date 26-Jan-2024 **Page** 4 / 15

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	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	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. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment.
Conditions for safe storage, includi	ng any incompatibilities
Storage Conditions	Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place.
Flammability class	Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Boron potassium oxide (B4K2O7)	STEL: 6 mg/m ³ inhalable	NDF	NDF
CAS#: 1332-77-0	particulate matter		
	TWA: 2 mg/m ³ inhalable		
	particulate matter		
Appropriate engineering controls			
Engineering Controls	Showers		
5 . 5	Eyewash stations		
	Ventilation systems.		
Individual protection measures, suc			
Respiratory protection	No protective equipment is nee exceeded or irritation is experie adequate ventilation. Where re local exhaust ventilation and g	enced, ventilation and evacua asonably practicable this sho	tion may be required. Ensure
Hand Protection	areas of skin. Gloves must be satisfy the specifications of EU	inspected prior to use. The se Directive 2016/425 and the s	hay help to protect the exposed elected protective gloves have to standard EN 374 derived from it. ber category III according to EN
Eye/face protection	If splashes are likely to occur,	wear safety glasses with side	-shields.
Skin and body protection	Wear suitable protective clothing	ng. Long sleeved clothing. A	void contact with eyes, skin and
EN / AGHS			Page 4 / 15

Product Code(s) 2293566 Issue Date 18-07-2019 Version 1.6	Product Name Silver 1 Reagent Powder Pillows Revision Date 26-Jan-2024 Page 5 / 15
	clothing.
General Hygiene Considerations	Do not eat, drink or smoke when using this product. 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 Appearance Odor	powder Odorless	Solid		Color Odor threshold	light yellow No data availal	ble
Property			Values		<u>R</u>	emarks • Method
Molecular weight	t		No data availa	ble		
рН			9.63		59	% @ 20°C
Melting point / fro	eezing point		> 360 °C /	680 °F		
Initial boiling poi	nt and boiling rang	je	No data availa	ble		
Evaporation rate			Not applicable			
Vapor pressure			Not applicable			
Relative vapor de	ensity		No data availa	able		
Specific gravity -	VALUE 1		1.729			
Partition coeffici	ent		log K _{ow} ~ -0.18			
Soil Organic Car Coefficient	bon-Water Partitio	า	log K _{oc} ~ 0.05			
Autoignition tem	perature		No data availa	ble		
Decomposition t	emperature		No data availa	ble		
Dynamic viscosi	ty		Not applicable			
Kinematic viscos	sity		Not applicable			
<u>Solubility(ies)</u>						

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Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Slightly soluble	> 0.1 mg/L	25 °C / 77 °F

Solubility in other solvents

Chemical Name	Solubility classification	<u>Solubility</u>	Solubility Temperature
Acid	Slightly soluble	> 0.1 mg/L	25 °C / 77 °F

Product Name Silver 1 Reagent Powder Pillows Revision Date 26-Jan-2024 **Page** 6 / 15

Other information

Metal Corrosivity

Steel Corrosion Rate Aluminum Corrosion Rate

Volatile Organic Compounds (VOC) Content

Not applicable

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Boron potassium oxide (B4K2O7)	1332-77-0	No data available	-
Glycine, N,N-1,2-cyclohexanediylbis[N-(carbox ymethyl)-, magnesium sodium salt (1:1:2)	63451-33-2	No data available	-
Citric acid	77-92-9	Not applicable	-
1-Triazene, 1-(4-nitro-1-naphthalenyl)-3-[4-(phenyl azo)phenyl]-	6708-61-8	Not applicable	-

No data available

3.51 mm/yr / 0.14 in/yr

Explosive properties

Upper explosion limit Lower explosion limit	No data available No data available
Flammable properties	
Flash point	Not applicable
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.

Hazardous polymerization

None under normal processing.

Conditions to avoid

None known based on information supplied.

Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products

Sodium oxides. Potassium oxide. 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

No data available.

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Boron potassium oxide (B4K2O7) (50 - 60%) CAS#: 1332-77-0	Rat LD50	3500 mg/kg	None reported	None reported	Vendor SDS
Citric acid (1 - 5%) CAS#: 77-92-9	Rat LD₅₀	3000 mg/kg	None reported	None reported	IUCLID
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Boron potassium oxide (B4K2O7) (50 - 60%) CAS#: 1332-77-0	Rat LD ₅₀	> 2000 mg/kg	None reported	None reported	Vendor SDS

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)	No information available mg/kg
ATEmix (dermal)	4,522.00 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

No data available.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Boron potassium oxide (B4K2O7) (50 - 60%) CAS#: 1332-77-0	Standard Draize Test	Rabbit	500 mg	4 hours	Skin irritant	ECHA
Citric acid (1 - 5%) CAS#: 77-92-9	Standard Draize Test	Rabbit	500 mg	24 hours	Mild skin irritant	RTECS
1-Triazene, 1-(4-nitro-1-naphthale nyl)-3-[4-(phenylazo) phenyl]- (<0.1%) CAS#: 6708-61-8	QSAR (Quantitative Structure Activity Relationship Models)	None reported	None reported	None reported	Not corrosive or irritating to skin	Toxtree (Ideaconsult, Ltd)

Serious eye damage/irritation

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

Mixture

No data available.

Ingredient Eye Damage/Eye Irritation Data

No data available.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Boron potassium oxide (B4K2O7) (50 - 60%) CAS#: 1332-77-0	OECD Test 405: Acute Eye Corrosion/Irritation	Rabbit	100 mg	24 hours	Eye irritant	ECHA
Glycine, N,N-1,2-cyclohexane diylbis[N-(carboxymet hyl)-, magnesium sodium salt (1:1:2) (30 - 40%) CAS#: 63451-33-2	None reported	None reported	None reported	None reported	Eye irritant	Based on similiar substance
Citric acid (1 - 5%) CAS#: 77-92-9	Standard Draize Test	Rabbit	0.750 mg	24 hours	Eye irritant	RTECS
1-Triazene, 1-(4-nitro-1-naphthale nyl)-3-[4-(phenylazo) phenyl]- (<0.1%) CAS#: 6708-61-8	QSAR (Quantitative Structure Activity Relationship Models)	None reported	None reported	None reported	Not corrosive or irritating to eyes	Toxtree (Ideaconsult, Ltd)
Respiratory or skin s	ensitization					

Product NameSilver 1 Reagent Powder PillowsRevision Date26-Jan-2024Page9 / 15

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

Mixture No data available.

Ingredient Sensitization Data

No data available.

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
Boron potassium oxide (B4K2O7)	1332-77-0	-	-	-	-
Glycine, N,N-1,2-cyclohexanediylbi s[N-(carboxymethyl)-, magnesium sodium salt (1:1:2)	63451-33-2	-	-	-	-
Citric acid	77-92-9	-	-	-	-
1-Triazene, 1-(4-nitro-1-naphthalenyl)- 3-[4-(phenylazo)phenyl]-	6708-61-8	-	-	-	-

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

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
1-Triazene,	QSAR	None reported	None reported	Potential cancer hazard	Toxtree (Ideaconsult, Ltd)
1-(4-nitro-1-naphthale	(Quantitative	-	-		
nyl)-3-[4-(phenylazo)	Structure				
phenyl]-	Activity				

(<0.1%)	Relationship		
CAS#: 6708-61-8	Models)		

Germ cell mutagenicity

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

Mixture invitro Data

No data available.

Substance invitro Data

No data available.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and
						sources for data
1-Triazene,	QSAR (Quantitative	Salmonella	None reported	None reported	Positive test result for	Toxtree
1-(4-nitro-1-naphthale	Structure Activity	typhimurium			mutagenicity	(Ideaconsult, Ltd)
nyl)-3-[4-(phenylazo)	Relationship					
phenyl]-	Models)					
(<0.1%)						
CAS#: 6708-61-8						

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

No data available.

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 to	izards to the aquatic				
<u>Mixture</u>					
Aquatic Acute Toxici No data available.	ty				
Aquatic Chronic Tox No data available.	icity				
<u>Substance</u>					
Aquatic Acute Toxici No data available.	ty				
Chemical name	Exposure	Species	Endpoint	Reported dose	Key literature references and

time type sources for data	Chemical name	Exposure time	Species		Reported dose	
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Glycine, N,N-1,2-cyclohexane diylbis[N-(carboxymet hyl)-, magnesium sodium salt (1:1:2) (30 - 40%) CAS#: 63451-33-2	96 hours	None reported	LC50	356000 mg/L	ECOSARS
Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Glycine, N,N-1,2-cyclohexane diylbis[N-(carboxymet hyl)-, magnesium sodium salt (1:1:2) (30 - 40%) CAS#: 63451-33-2	48 Hours	None reported	EC ₅₀	26162 mg/L	ECOSARS
Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Glycine, N,N-1,2-cyclohexane diylbis[N-(carboxymet hyl)-, magnesium sodium salt (1:1:2) (30 - 40%) CAS#: 63451-33-2	96 hours	None reported	EC ₅₀	56103 mg/L	ECOSARS

Aquatic Chronic Toxicity

No data available.

Persistence and degradability

Mixture

No data available.

Bioaccumulation MATERIAL DOES NOT BIOACCUMULATE **Mixture** No data available.

Partition coefficient

Mobility

Soil Organic Carbon-Water Partition Coefficient

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Do not reuse empty containers.
Working in small batches, dilute to 3 to 5 times the volume with cold water. Adjust to a pH between 6 and 9 with an acid, such as sulfuric or citric. If permitted by regulation. Open cold

log Koc ~ 0.05

log Kow ~ -0.18

water tap completely, slowly pour the reacted material to the drain. Check with national, local municipal and state authorities and waste contractors for pertinent local information on the disposal of this article.

14. TRANSPORT INFORMATION DOT Not regulated TDG Not regulated IATA Not regulated IMDG Not regulated Note: No special precautions necessary.

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	Does not comply
ENCS	Does not comply
IECSC	Complies
KECL	Complies
PICCS	Does not comply
TCSI	Complies
AICS	Does not comply
NZIoC	Does not comply

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

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No

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 does not contain any Proposition 65 chemicals

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
Boron potassium oxide	Х	-	-
(B4K2O7)			
1332-77-0			

U.S. EPA Label Information

Chemical name	FIFRA	FDA
Boron potassium oxide (B4K2O7)	180.1121	-
Citric acid	180.0950	21 CFR 184.1033

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

Special Comments

None

Additional information

Global Automotive Declarable Substance List (GADSL)

Chemical name	Global Automotive Declarable Substance List Classifications	Global Automotive Declarable Substance List Thersholds
Boron potassium oxide (B4K2O7)	Declarable Substance (FI)	1 %
1332-77-0		0.1 %

NFPA and HMIS Classifications

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

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

Product Code(s) Issue Date 18-0 Version 1.6			Product Name Revision Date 2 Page 14 / 15	Silver 1 Reagent Powder Pillows 26-Jan-2024
ACGIH ATSDR CCRIS CDC CEPA CICAD ECHA EEA EPA ERMA ECOSARS FDA GESTIS HSDB INERIS IPCS INCHEM IUCLID NITE NIH NIOSH LOLI NDF NICNAS NIOSH IDLH OSHA PEEN RTECS SIDS SYKE USDA USDC WHO	on 8: EXPOSURE C	ATSDR (Agency for To CCRIS (Chemical Car CDC (Center for Disea CEPA (Canadian Envir CICAD (Concise Intern ECHA (The European EEA (European Enviro EPA (Environmental P ERMA (New Zealands Estimation through EC FDA (Food & Drug Ad GESTIS (Information Insurance) HSDB (Hazardous Sul INERIS (The National IPCS INCHEM (Internation Japan National Institute NIDSH (National Institute NIDSH (National Institute NIOSH (National Institute NIOSH (National Institute NIOSH (National Institute OSHA (Occupational S PEEN (Pan European RTECS (Registry of To	oxic Substances and cinogenesis Researc ase Control) ironmental Protection national Chemical Ass Chemicals Agency) protection Agency) comment Agency) protection Agency) s Environmental Risk COSARS v1.11 part of ministration) System on Hazardou bstances Data Bank) Industrial Environmentational Programme of conal Uniform Chemicate to of Technology and s of Health) tute for Occupational international Chemicate of Health) tute for Occupational international Chemicate consist Life or Health Safety and Health Add Ecological Network) oxic Effects of Chemi mation Dataset) for H ent Institute (SYKE) Department of Agricu Department of Common organization)	Agency) sessment Documents) Management Authority) f the Estimation Programs Interface (EPI) Suite™ us Substances of the German Social Accident nt and Risks Institute) n Chemical Safety) al Information Database) Evaluation (NITE) Safety and Health) cal Regulatory Database) ification and Assessment Scheme (NICNAS) ministration of the US Department of Labor) cal Substances) ligh Volume Chemicals
TWA	TWA (time-weighted average)		STEL	STEL (Short Term Exposure Limit)
MAC	Maximum Allowable Concentration		Ceiling	Ceiling Limit Value
Х	Listed		Vacated	These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations.
SKN*	Skin designation		SKN+	Skin sensitization
RSP+ C M	Respiratory sensitization Carcinogen mutagen		R	Hazard Designation Reproductive toxicant
Prepared By	Hach Product Complian		ance Department	
Issue Date		18-07-2019		
Revision Date		26-Jan-2024		
Revision Note		None		
Disclaimer				
EN / AGHS Page 14/15				

Product Name Silver 1 Reagent Powder Pillows Revision Date 26-Jan-2024 Page 15 / 15

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.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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End of Safety Data Sheet