



MATERIAL SAFETY DATA SHEET

Product:**057410 OnGuard II Ag-H Cartridge, 2.5 cc, Pkg of 48**

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The following information is believed to be accurate and is currently the best information available to us. However, we make no warranties, express or implied, with respect to the information supplied and we assume no liability resulting from its use.

2. HAZARDOUS IDENTIFICATION

HAZARD CLASS	Irritant		NFPA	HMIS
Eyes:	Irritant	HEALTH	0	0
Skin:	Irritant	FLAMMABILITY	0	0
Ingestion:	Irritant	REACTIVITY	0	0
Inhalation:	Irritant	NFPA SPECIAL	-	-
		HMIS PPE		

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	Sulfonated Styrene /Divinyl benzene Cation Exchange Resin	Silver Metal	Silver Chloride	Silver Oxide		
PERCENT (%)	88.8	11.2	0	0	0	0
CAS NO.	69011-21-8	7440-22-4	7783-90-6	20667-12-3		
EINECS NO.	Not Found	231-131-3	232-033-3	243-957-1		
RISKS		R20/22, R36	R22, R36	R22, R36		
SAFETY		S20, S26, S36/37/39, S45	S20, S26, S36/37/39, S45	S20, S26, S36/37/39, S45		



MATERIAL SAFETY DATA SHEET

4. FIRST AID MEASURES

- GENERAL:** Remove contaminated clothing, wash thoroughly before reuse.
- EYES:** Flush with water for at least 15 minutes occasionally raising upper and lower eyelids.
- SKIN:** Remove contaminated clothing and flush with water thoroughly
- INHALATION:** Move to fresh air
- INGESTION:** If large amounts are swallowed, get medical help immediately. If patient is conscious, give large quantities of water

5. FIRE FIGHTING MEASURES

- UNUSUAL FIRE AND EXPLOSION:** None Known
- HAZARDS:** Contains an irritant
- EXTINGUISHING MEDIA:** Carbon Dioxide, Foam, Dry Chemical
(Note: Carbon Dioxide is one of the decomposition products)
- SPECIAL FIRE FIGHTING PROCEDURES:** Although the product is not combustible, firefighters subject to products of combustion should wear full-protective clothing including self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

- Ventilate area.
Wear appropriate protective clothing and eye protection.
Contain spill.
Collect or absorb with an inert material (vermiculite, dry sand, earth, etc.)
Mop up and store in a suitable waste container.
Wash contaminated areas with soap and water.

7. HANDLING AND STORAGE

- Ensure good ventilation.
Have an eye wash in the immediate area in case of emergency.
Store at room temperature
Keep container tightly closed
Use good laboratory practice when working with any chemical whether it is considered hazardous or not.



MATERIAL SAFETY DATA SHEET

8. EXPOSURE CONTROL/PERSONAL PROTECTION

ROUTES OF ENTRY

INHALATION: Yes

SKIN: Yes

INGESTION: Yes

HEALTH HAZARDS

ACUTE: May cause irritation of eyes and mucous membranes

CHRONIC: Unknown

VENTILATION

LOCAL EXHAUST: Good laboratory ventilation is acceptable.

MECHANICAL (GENERAL): Use in hoods if possible

SPECIAL: None

OTHER: None

PROTECTIVE CLOTHING OR EQUIPMENT

GLOVES: Disposable laboratory gloves are adequate

EYE PROTECTION: Glasses or goggles.

RESPIRATORY: None

OTHER: Lab coats

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Brown to grey-brown metallic polymer

ODOR: None

pH: Not Applicable

MOLECULAR WEIGHT: Not Applicable

MELTING POINT: Not Applicable

BOILING POINT: Not Applicable

AUTOIGNITION TEMPERATURE: Undetermined

FLASH POINT: Not Applicable

LOWER EXPLOSION LIMIT: Not Applicable

UPPER EXPLOSION LIMIT: Not Applicable

SPECIFIC GRAVITY: Polymer, 1.1 1.4, Silver Metal, 10.2 @ 20 degrees C



MATERIAL SAFETY DATA SHEET

10. STABILITY & REACTIVITY

STABILITY/CONDITIONS TO AVOID: Stable

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents such as concentrated nitric acid

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Monoxide, carbon dioxide, silver compounds

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGY INFORMATION

PRODUCT TOXICOLOGY INFORMATION:

SYMPTOMS AND SIGNS OF EXPOSURE: May cause minor soreness or redness of eyes or mucous membranes.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Unknown

EMERGENCY AND FIRST AID PROCEDURES: In case of contact, wash skin with copious amounts of water.
Flush eyes with copious amounts of water for at least 15 minutes.
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Submit to medical examination.

CARCINOGENICITY: No data found

RTECS #: No data found

ACGIH TLV TWA: No data found

OSHA PEL: No data found

NTP: No data found

IARC Monographs: No data found

HAZARDOUS COMPONENT TOXICOLOGY INFORMATION:

Hazardous Components:	Sulfonated Styrene /Divinyl benzene Cation Exchange Resin	Silver Metal	Silver Chloride	Silver Oxide		
RTECS #	1006059SD	VW3500000	VW3563000	VW4900000		
OSHA PEL	Not Found	0.01 MG/M3	Not Found	0.01 MG AG/M3		
ACGIH TLV	Not Found	0.1 MG/M3	Not Found	.01 MG AG/M3		
TOXICITY DATA	None	IMP-RAT TDLo: 2400 mg/Kg TFX:ETA MUL-RAT TDLo: 330 mg/Kg/43W-I TFX:ETA		ORL-RAT LDLo: 2820 mg/Kg No Data Found		
TSCA	Yes	1980	0	1980	0	0



MATERIAL SAFETY DATA SHEET

12. ECOLOGICAL INFORMATION

No information is found on environmental toxicity for this solution

13. DISPOSAL CONSIDERATIONS

Contact local hazardous materials or chemical waste disposal agency for regulations.

14. TRANSPORT INFORMATION

IATA CLASSIFICATION: Not Regulated

UN ID NUMBER: -
PROPER SHIPPING NAME: -
CLASS OR DIVISION: -
SUB RISK: -
HAZARD LABEL(S): -
PACKAGING GROUP: -
LIMITED QUANTITY PKG INSTRUCTION: -
MAXIMUM LIMITED QUANTITY: -
SPECIAL PROVISIONS: -
ERG CODE: -
TRAINING: -
VARIATIONS: -

15. REGULATORY INFORMATION

PRODUCT RISK STATEMENTS: R22 Harmful if swallowed
R24 Toxic in contact with skin
R25 Toxic if swallowed

PRODUCT SAFETY STATEMENTS: S24/25 Avoid contact with skin and eye

16. OTHER INFORMATION