

### Material Safety Data Sheet (MSDS) Silver Enhancing Kit

	Section 1 Product and Company Information				
1.1	Product	SEKL15, SEKE	3250		
	Catalogue Number(s)				
1.2	Company	BBI Solutions.			
	Information	Golden Gate			
		Ty Glas Avenue			
		Llanishen			
		Cardiff CF14 5DX			
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1.3	Emergency Contact	Telephone	+44 (0)29 2074 7232		
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### Section 2 Composition / Information on Ingredients

#### **Chemical / Preparation Name**

Initiator and Enhancer. Propriety components and mixture. Contains silver nitrate and sodium sulfite.

### Section 3 Hazard Identification

#### Overview

Avoid contact with skin, eyes and inhalation. Can be absorbed through skin.

Potential Health Effects			
Eyes:	May cause eye irritation		
Skin:	May cause skin irritation. May be harmful if absorbed through the skin – prolonged exposure		
	may cause sensitivity.		
Ingestion:	Harmful is swallowed, causing colic, diarrhea, CNS depression and fatality.		
Inhalation:	Material may be irritating to mucous membrane and upper respiratory tract.		
Mutagenicity:	nicity: Some evidence of mutagenic effects		

### Section 4 First Aid Measures

Eyes:	Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. Call a physician.
Skin:	Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician if symptoms persist.
Ingestion:	If swallowed, wash out mouth with water provided the person is conscious. Call a physician.
Inhalation:	Remove to fresh air, rest and keep warm. If breathing becomes difficult, Call a physician.

#### Section 5 Fire Fighting Measures

**General Information** 

Wear self-contained breathing apparatus and protective clothing. Prevent contact with skin and eyes. Emits toxic fumes under fire conditions/heated.

**Extinguishing Media** 

Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

#### Section 6 Accidental Release Measures

Spills / Leaks

Wear respirator, chemical resistant gloves, chemical safety goggles, and rubber boots. Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after pickup is complete. Observe all federal, state and local environmental laws regarding disposal.

### Section 7 Handling and Storage

Handling Avoid contact with skin and eyes. Observe general PPE safety standards when handling this material.

Sto

Store between  $2 - 8^{\circ}$ C. Do not freeze.

Section 8 Exposure Controls / Personal Protection

Exposure Limits				
Chemical Name	ACGIH	NIOSH	OSHA – Final PELs	OSHA – Vacated PELs
Silver Enhancing Kits	N/A	N/A	N/A	N/A

Personal Protective Equipment		
Eyes:	Eyes: Wear chemical safety goggles.	
Skin: Wear chemical resistant gloves.		
Clothing: Wear disposable/washable laboratory garments.		
Respirators: Wear appropriate NIOSH/MSHA approved respirator		

Storage

### Section 9 Physical and Chemical Properties

Physical State:	Liquid
Appearance:	Colorless
Odour:	None
Vapour Pressure:	N/A
Vapour Density:	N/A
Evaporation Rate:	As water
Viscosity:	As water
Boiling Point:	Not known
Freezing / Melting Point:	Not known
Auto-ignition Temperature:	N/A
Flash Point:	N/A
Decomposition Temperature:	N/A
NFPA Rating:	N/A
Explosion Limits: Upper:	N/A
Lower:	N/A
Solubility:	Aqueous solution
Specific Gravity / Density:	N/A
Molecular Formula:	N/A
Molecular Weight:	N/A

## Section 10 Stability and Reactivity

Chemical Stability:	Stable	
Conditions to Avoid:	Freezing and light	
Incompatibilities with other	Light, Acids – will react violently with acids, evolving toxic fumes of	
Materials:	sulpher dioxide and sulphorous acid	
Hazardous Decomposition	Not known	
Products:		
Hazardous Polymerisation:	Will not occur	

### Section 11 Toxicological Information

RTECS Number:	Not known
CAS Number:	Not known
LD50 / LC50:	Not known
Carcinogenicity:	Not known
IARC:	Not known
Epidemiology:	Not known
Teratogenicity	Not known
Reproductive Effects:	Not known
Neurotoxicity:	Not known
Mutagenicity:	Some evidence
Other Studies:	Not known

Section 12 Ecological Information		
Ecological Hazards:	No data available	

## Section 13 Disposal Considerations

Waste Disposal – Material:	Contact a licensed waste disposal service to dispose of this material.
Waste Disposal – Empty	Contact a licensed waste disposal service to dispose of this packaging.
Packaging:	

## Section 14 Transport Information

Shipping Name:	Silver Enhancing Kit (SEKL15, SEKB250)	
RID / ADR / DOT 49 CFR:	Unknown	
ICAO / IATA:	Unknown	
IMDG Code:	Unknown	
UN Number:	Unknown	
MFAG:	Unknown	
EMS:	Unknown	
Notes:	N/A	

# Section 15 Regulatory Information

European / International Regulations			
Hazard Symbols:	Hazard Symbols: Unknown		
Risk Phrases: Unknown			
Safety Phrases: S36 and S37 (suitable protective clothing/ gloves)			
	US Federal Regulations		
TSCA: Unknown			
SARA: Unknown			
OSHA: Unknown			

### Section 16 Other Information

MSDS Creation/Revision Date:	18 May 2012
Next Revision Due:	18 May 2014
Notes:	Customers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall BBI Solutions be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if BBI Solutions has been advised of the possibility of such damages.

### For in vitro research only. Not for diagnostic use.

To reorder or for further technical support:	
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