

**1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Product Identity :**

**SLT20**

**SELENIUM TONER**

**Producer / Distributor :**

Jay House Ltd, Unit 6b, Park Lane Ind. Estate,  
Corsham, Wiltshire SN13 9LG, UK.  
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**2. COMPOSITION / INGREDIENT INFORMATION**

This is a liquid preparation of inorganic compounds dissolved in water. The main ingredients are :

<b>Chemical Name and Symbol letter</b>	<b>%w/w</b>	<b>R-Phrases</b>	<b>S-Phrases</b>	<b>EINEC No</b>	<b>CAS No</b>
AMMONIUM THIOSULPHATE	25-30 %				
-	-	-	231-982-0	7783-18-8	
SODIUM SULPHITE	15-20 %				
-	-	-	231-821-4	7757-83-7	
SODIUM SELENITE	1-2 %				
R33		S20/21-28-45	233-267-9	10102-18-8	

**3. HAZARD IDENTIFICATION**

**EC classification :**

See paragraph 15

**Most important hazards :**

**4. FIRST AID MEASURES**

**Inhalation :** Move the victim to fresh air. Put person in half sitting position and let rest. In all cases seek medical advice

**Skin contact :** Flush with plenty of water. Remove contaminated clothing. Wash afterwards with water and soap. In extreme cases seek medical advice

**Eye contact :** Rinse eyes thoroughly with water until irritation stops. In all cases seek medical advice.

**Ingestion :** Wash mouth with plenty of water. Give water to drink. In all cases seek medical advice.

**Other :** If you feel unwell, seek medical advice ( show product label where possible.)

**Advice to physician :** Contains Sodium selenite.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media** Only use extinguishing media which are compatible with the surrounding materials.

Water, waterspray, Carbon dioxide, dry powder, foam, sand.

**Unsuitable extinguishing media** : All extinguishing media are allowed.

**Special exposure hazards** : When product is involved in a fire, toxic fumes and smoke will be generated. Do not breathe these fumes

**Hazardous decomposition/combustion products** : Formation of CO<sub>2</sub>, CO, SO<sub>2</sub>, Se.H<sub>2</sub>S., NO<sub>x</sub>, and Na<sub>2</sub>O, is possible.

**Protective equipment** : Use approved positive pressure self-contained breathing apparatus when product is involved in a fire.

**Further instructions** : Contaminated extinguishing water should be disposed of in a manner approved by the EEC, national and local regulatory agencies.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** : Wear personal protective clothing. ( See paragraph 8 ).

When vapours, aerosols or mists are formed, wear suitable respiratory protection.

**Environmental precautions** : In case of an accident, avoid release of product into the environment. Prevent product getting into sewerage systems or public waterways. Try to collect as much as possible in an approved container for later disposal

**Methods for cleaning up** : Action may only be taken when fully protected. Contain the area of spillage. Stop the source of leak. Large amounts should be pumped into a container. Small amounts can be collected with absorbing materials. Small remaining leftovers may be washed away with large amounts of water

## 7. HANDLING AND STORAGE

**Handling** : Working areas and methods should be organised in such a way that direct contact is avoided. Wear protective clothing. Emergency shower and eye rinse facilities must be accessible. When handling chemicals, do not eat, drink or smoke.

**Fire and explosion prevention** : This preparation contains a lot of water and does not show any flammable or explosive properties. No special fire and explosion prevention procedures are necessary.

**Storage requirements** : Store in a dry cool, well ventilated place away from all sources of ignition and heating. Keep the package closed if not in use. Keep away from strong acids.

**Other information** : Always store in the original container. Do not use the empty contaminated container for any other purposes

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering controls** : Ensure good ventilation and local exhaustion of the working area.

**Exposure limits** :

SODIUM SELENITE                      EH40    = 0.1mg/M3

**Personal protection** :

**Inhalation** : Normally a local ventilation is sufficient to keep airborne concentration of chemicals at a low level. Inhalation of vapour or dried residue causes respiratory irritation.

**Skin contact** : Wear impervious gloves.

**Eye contact** : Wear close fitting safety goggles.  
**Ingestion** : When handling chemicals do not eat, drink or smoke.  
**Other information** : Always follow the mixing instructions strictly when water or other solutions have to be added to the preparation. Avoid breathing mist or vapour. Avoid contact with eyes and skin. Handle with care.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	: Liquid
<b>Colour</b>	: Colourless
<b>Odour</b>	: Ammoniacal
<b>Boiling point/range</b>	: Not determined
<b>Melting point/range</b>	: Not relevant
<b>Flash point</b>	: Not relevant
<b>Flammability</b>	: Not relevant
<b>Autoignition temperature</b>	: Not relevant
<b>Explosive limits lower</b>	: Not relevant
<b>Oxidising properties</b>	: Not determined
<b>Vapour pressure (20deg C)</b>	: Not determined
<b>Density (20deg C)</b>	: 1.21
<b>Solubility in water (25deg C)</b>	: Completely
<b>Solubility in other solvents (25deg C)</b>	: Not determined
<b>pH value (25deg C)</b>	: 9.3
<b>pH solution in water</b>	: Not determined
<b>Partition coefficient n-octanol/water</b>	: Not determined
<b>Viscosity</b>	: As water
<b>Other information</b>	: -

## 10. STABILITY AND REACTIVITY

**Stability** : The product is stable under normal storage conditions  
**Conditions to avoid** : Liberates Sulphur dioxide on contact with strong acids  
**Materials to avoid** : Corrosive to various metals.  
**Hazardous decomposition products** Only when the product is involved in a fire, or when it is handled incorrectly, is there a possibility that decomposition products will be generated. ( See paragraph 5 )  
**Other** : Free ammonia is given off during normal conditions

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity** :  
 AMMONIUM THIOSULPHATE LD50 (Oral Rat) = 2890mg/kg  
 SODIUM SULPHITE LD50 (Oral Rat) = 2525mg/kg  
 SODIUM SELENITE LD50 (Oral Rat) = 7 mg/kg

### Different routes of exposure, health warnings

**Inhalation** : Avoid breathing mist, vapour or aerosols. Ventilate as required to keep concentrations low. May cause respiratory irritation.  
**Skin contact** : Avoid contact with skin. Can cause irritation. May cause dermatitis  
**Eye contact** : Can cause irritation, and discolouration  
**Ingestion** : Harmful by ingestion, with systemic effects.  
**Other information** : Selenium can cause cumulative effects and can cause liver and kidney damage. Accute effect of selenium poisoning is garlic breath  
**Experience with humans** :

## 12. ECOLOGICAL INFORMATION

**Information about elimination**

**Information about environmental compartments :**

**Ecotoxicity :**

**Other information :** Sodium selenite is harmful to aquatic life in very low concentrations. Selenium can accumulate and concentrate in the human body.

## 13. DISPOSAL CONSIDERATIONS

**Product or contaminated product** Dispose of leftovers, waste or contaminated products in accordance with local and national regulations.

**Contaminated package :** Contaminated package should be disposed of in accordance with local and national regulations.

**Other information :** We recommend the separation of any waste resulting from this product. It can be dangerous when different photographic products are mixed together

## 14. TRANSPORT INFORMATION

**UN No.** :-

**Description** : NON HAZARDOUS

**Containing** :-

**ADR/RID Class** :-

**Item** :-

**TREMCARD:** -

**IMDG/ADNR Class** :-

**Page** :-

**EmS** :-

**Pack.gr:** -

**MFAG** :

**ICAO/IATA Class** :-

**Pass<** :-

**Instr.** :-

**Pack.gr:** -

**Cargo<:** -

**Instr.** :-

## 15. REGULATORY INFORMATION

**Chemical identity :**

**Warning sign EC :** -

**Symbol(s) :**

**R(isk) phrase(s) :** R33

Danger of cumulative effects.

**S(afety) phrase(s) :**

S20/21 When using do not eat drink or smoke.

S28 After contact with skin, wash immediately with plenty of water.

S45 In case of accident or If you feel unwell, seek medical advice (show the product label where possible.)

**Exposure limits :**

**Other information :-**

## 16. OTHER INFORMATION

The above mentioned information corresponds to our present knowledge and therefore does not guarantee certain properties. The safety data sheet serves as a description of the product in regards to necessary safety measures. Recipients of our product must take responsibility for observing existing laws and regulations.