

**24 hour transportation emergency telephone number: Chemtrec 800-424-9300**

## 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Chemical name/ Trade name:** MT1 SELENIUM

**Application/use:** Photographic toner

**Company name:** Moersch Photochemie, Am Heideberg 48  
D 50354 Hürth, Germany

**Telephone:** ++49 22 33 943137

## 2 COMPOSITION/INFORMATION ON INGREDIENTS

This product is a preparation according to the law for chemicals.  
Description: Aqueous solution containing inorganic and organic substances

Name	Content	CAS	EINECS	CLASSIFICATION
Sodium Selenite	1-5%	10102-18-8	233-267-9	T, N;R-23/25-33-50/53
Ammonium Thiosulphate	10-30%	7783-18-8	231-982-0	
Ammonium Sulphite	5-10%	10196-04-0	233-484-9	Xi; R 31-36/38

**Other information:** further principal ingredient: Water

## 3 HAZARDS IDENTIFICATION

### INHALATION

May cause irritation to the respiratory system

### INGESTION

Toxic if swallowed

### SKIN CONTACT

Harmful in contact with skin. May cause skin irritation. May cause sensitization by skin contact.

### EYE CONTACT

Ammonia may cause severe irritation to eyes.

## 4 FIRST-AID MEASURES

**After breathing in:** Move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

**After skin contact:** Remove affected person from source of contamination. Wash skin thoroughly with soap and water. Contact physician if irritation continues..

**After eye contact:** At eye contact open eyelids wash with water, then immediately consult an eye specialist.

### After swallowing:

Never make an unconscious person vomit or drink fluids! Remove victim immediately from source of exposure. Rinse mouth thoroughly. Drink a few glasses of water or milk. Provide rest, warmth and fresh air. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention.

**24 hour transportation emergency telephone number: Chemtrec 800-424-9300**

## 5 FIRE-FIGHTING MEASURES

### EXTINGUISHING MEDIA

The product is non-combustible. Use extinguishing media appropriate for surrounding fire.

### SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapors.

### UNUSUAL FIRE & EXPLOSION HAZARDS

No unusual fire or explosion hazards noted.

### SPECIFIC HAZARDS

The product is non-combustible. If heated, harmful vapors may be formed.

### PROTECTIVE MEASURES IN FIRE

Use protective equipment appropriate for surrounding materials. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

## 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Avoid contact with skin and eyes. Provide adequate ventilation. For personal protection, see section 8.

### ENVIRONMENTAL PRECAUTIONS

Do not discharge into drains, water courses or onto the ground. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

### SPILL CLEAN UP METHODS

For waste disposal, see section 13. Wear necessary protective equipment. Small quantities may be flushed to drains with plenty of water. Absorb in vermiculite, dry sand or earth and place into containers. Wash contaminated area with water. Prevent discharge of larger quantity to drain

## 7 HANDLING AND STORAGE

### HANDLING

Provide good ventilation. Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Read and follow manufacturer's recommendations.

### STORAGE

Store in closed original container in a dry place. Store above freezing. Store under well-ventilated conditions at a temperature below 25°C.

### STORAGE CLASS

Chemical storage. LGK 12 (VCI strategy)

---

## 8 OUTLINE DEMARCATION AND PERSONAL PROTECTION EQUIPMENT

### PROTECTIVE EQUIPMENT

#### Breathing protection:

Sufficient ventilation, no additional protection necessary.

<b>Hand protection:</b>	Use chemical resistant gloves.
<b>RESPIRATORY EQUIPMENT</b>	Respiratory protection not required.
<b>EYE PROTECTION</b>	Use approved safety goggles or face shield.
<b>OTHER PROTECTION</b>	Wear appropriate clothing to prevent any possibility of skin contact.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE</b>	Clear liquid
<b>COLOR</b>	Colorless
<b>ODOR</b>	Ammonia
<b>SOLUBILITY</b>	100% Soluble in water
<b>BOILING POINT (°C)</b>	>100 760 mm Hg
<b>RELATIVE DENSITY</b>	1.32 20
<b>pH-VALUE, CONC. SOLUTION</b>	9.1

## 10 STABILITY AND REACTIVITY

<b>STABILITY:</b>	No decomposition by correct use.
<b>CONDITIONS TO AVOID:</b>	Avoid contact with acids and alkalies. Avoid mixing with: Strong alkalies. Generates toxic gas in contact with acid.

<b>HAZARDOUS POLYMERISATION MATERIALS TO AVOID</b>	Will not polymerize. Strong acids. Strong alkalies. Avoid contact with other photographic solutions and cleaning compounds.
--	--

## HAZARDOUS DECOMPOSITION PRODUCTS

Fire or high temperatures may form toxic and corrosive vapors. Ammonia Sulphurous gases (SO<sub>x</sub>).

## 11 TOXICOLOGICAL INFORMATION

This chemical formulation has not been tested for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

---

## 12 ECOLOGICAL INFORMATION

**ECOTOXICITY**  
Not regarded as dangerous for the environment.

## 13 INDICATIONS FOR WASTE MANAGEMENT

The corresponding local water-and waste regulations must be observed. Do not dispose with domestic garbage. Do not let it get into the sewage system.

---

## 14 TRANSPORT INFORMATION

**TRANSPORT NOTES** This product is not classified as dangerous for transport by road, rail sea or air, (ADR/RID, IMDG, IATA). The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**ADR CLASS:** Not classified for transportation.  
**ROAD TRANSPORT NOTES:** Not classified for road transport  
**RAIL TRANSPORT NOTES:** Not classified for rail transport  
**SEA TRANSPORT NOTES:** Not classified for sea transport  
**AIR TRANSPORT NOTES:** Not classified for air transport

## 15 REGULATIONS

**Identification by EC directives:** The product is classified and labeled according to EC guidelines

**Danger identification:** harmful  
**Relevant R-phrases** R-20/22 Harmful by inhalation and if swallowed. R-36/37/38 Irritating to eyes, respiratory system and skin.  
25 Toxic bif swallowed.  
33 Danger of cumulative effects.  
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S sentences:** S-2 Keep out of reach of children.  
S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S-36/37 Wear suitable protective clothing and gloves. S-46 If swallowed seek medical advice immediately and show this container label.  
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

**Remarks:** This classification was carried out according to the calculation method for preparations guideline ( 88/379/EEC).

**Water endangering class** 2 (water endangering) hazardous for water

---

## 16 OTHER INFORMATION

**Use:** Photographic toner

### Further information:

These details refer merely on this above product and not needs to be valid, if this is occurred with another product or in an arbitrary process.

The information corresponds to our today's knowledge, it is correct and complete and with best conscience, given without a guarantee, though. It shall describe our product with a view to safety requirements and has therefore not the meaning to assure of certain qualities. The responsibility of the use of this product remains on the user whether the information is complete and suitable for his special use.

### ISSUED BY:

**Wolfgang Moersch – Moersch-Photochemie**  
++49 2233 943137 [info@moersch-photochemie.com](mailto:info@moersch-photochemie.com)

### REVISION DATE:

12 Jan 2002

### PRINTING DATE

12 Jan 2002

### R-PHRASES (FULL TEXT)

**R-20/22 Harmful by inhalation and if swallowed. R-36/37/38 Irritating to eyes, respiratory system and skin.25 Toxic bif swallowed.**

**33 Danger of cumulative effects.**

**50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**