

## Material Safety Data Sheet

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### 1. Identification of the substance/mixture and of the company/undertaking

**Product name:** TSS

**Product code:** 10017723

**Supplier:** Carestream Health, Inc., 150 Verona Street, Rochester, New York 14608; Carestream Health Canada Company, 6 Monogram Place, Suite 200, Toronto, Ontario, M9R 0A1

For Emergency Health Information call, (800) 424-9300

For other information contact 800-328-2910.

**Synonyms:** None.

### 2. Hazards identification

**WARNING!**  
**POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES**  
**CAN DECOMPOSE AT ELEVATED TEMPERATURES**  
**CAUSES EYE IRRITATION**  
**THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY INVESTIGATED**

**HMIS II Hazard Ratings:**

Health - 2, Flammability - 1, Reactivity (Stability) - 1

**NFPA Hazard Ratings:**

Health - 2, Flammability - 1, Instability - 1

NOTE: HMIS II and NFPA hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. An asterisk (\*), in the HMIS II health field, designates potential chronic or target organ hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

### 3. Composition/information on ingredients

Weight %	Components (CAS-No.)
100	Potassium toluene-p-thiosulphonate (28519-50-8)

### 4. First aid measures

**Inhalation:** If symptomatic, move to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

**Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

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**Skin:** Wash off with soap and water. Get medical attention if symptoms occur.

**Ingestion:** Drink 1 or 2 glasses of water. Get medical attention. Never give anything by mouth to an unconscious person.

### 5. Fire-fighting measures

**Extinguishing Media:** water spray, carbon dioxide (CO<sub>2</sub>), dry chemical.

**Special Fire-Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products. Use water spray to cool unopened containers.

**Hazardous Combustion Products:** Carbon oxides sulphur oxides (see also Hazardous Decomposition Products section).

**Unusual Fire and Explosion Hazards:** Fire or high temperatures may cause decomposition. Dust may form explosive mixture in air.

### 6. Accidental release measures

**Methods for cleaning up:** Shovel into suitable container for disposal. Avoid dust formation. Clean surface thoroughly to remove residual contamination.

### 7. Handling and storage

**Personal precautions:** Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation. Wash thoroughly after handling.

**Prevention of Fire and Explosion:** Keep away from heat and sources of ignition. Exercise caution if heating, especially in a closed container. Dust may form explosive mixture in air. Minimize dust generation and accumulation. Ensure adequate ventilation. Refer to NFPA Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries." Keep from contact with oxidizing materials.

**Storage:** Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

### 8. Exposure controls / personal protection

**Occupational exposure controls:** Not established

**Ventilation:** Good general ventilation should be used. Ventilation should be sufficient so that applicable occupational exposure limits are not exceeded. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances.

**Respiratory protection:** If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn. Respirator type: N95 Particulate Filter. If

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respirators are used, a program should be instituted to assure compliance with OSHA Standard 29 CFR 1910.134.

**Eye protection:** Wear safety glasses with side shields (or goggles).

**Skin and body protection:** It is a good industrial hygiene practice to minimize skin contact. For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

**Recommended Decontamination Facilities:** Safety shower, eye wash, washing facilities as appropriate to condition of use.

### 9. Physical and Chemical Properties

**Physical form:** solid

**Colour:** white

**Odour:** No data available

**Specific gravity:** No data available

**Vapour pressure:** No data available

**Vapor density (air = 1):** No data available

**Volatile fraction by weight:** No data available

**Boiling point/range:** No data available

**Melting point/range:** No data available

**Water solubility:** completely soluble

**pH:** not applicable

**Flash point:** not applicable, combustible solid

### 10. Stability and reactivity

**Stability:** Stable under normal conditions. Safe handling temperatures are dependent on specific conditions of use and are typically substantially below the onset temperature. Consult your technical safety experts.

Exotherm onset temperature: 191 °C by ARC.

**Incompatibility:** Strong oxidizing agents.

**Hazardous decomposition products:** None under normal conditions of use.

**Hazardous Polymerization:** Hazardous polymerisation does not occur.

### 11. Toxicological information

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### Effects of Exposure

**General advice:** The toxicological properties of this material have not been fully investigated and its handling and use may present additional hazards.

**Inhalation:** Expected to be a low hazard for recommended handling.

**Eyes:** Causes eye irritation.

**Skin:** Expected to be a low hazard for recommended handling.

**Ingestion:** Expected to be a low hazard for recommended handling.

### Acute Toxicity Data:

- Oral LD50 (rat): > 2,000 mg/kg
- Skin irritation: none
- Eye irritation (unwashed eyes): moderate
- Eye irritation (washed eyes): slight

## 12. Ecological information

Data for this material were used to estimate its environmental impact.

Potential Toxicity:

Fish LC50: > 100 mg/l

Daphnid EC50: > 100 mg/l

Algal IC50: > 100 mg/l

Organics Readily Degradable: Readily biodegradable

Potential Bioaccumulation:  $\log Pow < 1$

## 13. Disposal considerations

Discharge, treatment, or disposal is subject to national, state, provincial, or municipal laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

Not regulated for all modes of transportation.

For more transportation information, go to: <http://ship.carestreamhealth.com>.

## 15. Regulatory information

**U.S. California Prop. 65:** none

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### **Carcinogenicity Classification (components present at 0.1% or more):**

International Agency for Research on Cancer (IARC): none  
American Conference of Governmental Industrial Hygienists (ACGIH): none  
U.S. National Toxicology Program (NTP): none  
U.S. Occupational Safety and Health Administration (OSHA): none

**Chemical(s) subject to the reporting requirements of U.S. Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372:**  
none

### **16. Other information**

#### **US/Canadian Label Statements:**

**WARNING!**  
**POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES**  
**CAN DECOMPOSE AT ELEVATED TEMPERATURES**  
**CAUSES EYE IRRITATION**  
**THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY**  
**INVESTIGATED**

Avoid breathing dust.  
Avoid contact with eyes, skin, and clothing.  
Minimize dust generation and accumulation.  
Ensure adequate ventilation.  
Wash thoroughly after handling.

**FIRST AID:** In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Keep out of reach of children.

For additional information, see Material Safety Data Sheet (MSDS) for this material.

Additional hazard precautions for containers greater than 1 gallon of liquid or 5 pounds of solid:

Since emptied containers retain product residue, follow label warnings even after container is emptied.

**IN CASE OF FIRE:** Use water spray, carbon dioxide (CO<sub>2</sub>), dry chemical. Use water spray to cool unopened containers.

**IN CASE OF SPILL:** Shovel into suitable container for disposal. Avoid dust formation.

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The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to

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assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. The information relating to the working solution is for guidance purposes only, and is based on correct mixing and use of the product according to instructions.

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R-1, S-2, F-1, C-2T