

# Material Safety Data Sheet

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

**Product name:** Q-1253

**Product code:** 30008526

**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:** PCD 14079

## 2. Hazards identification

**WARNING!**

**CAUSES EYE IRRITATION**

**POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES**

**HMIS III Hazard Ratings:** Health - 2, Flammability - 1, Physical Hazard - 0

**NFPA Hazard Ratings:** Health - 2, Flammability - 1, Instability - 0

NOTE: HMIS III 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 III 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	2,2-Ethylenedithiodiethanol (5244-34-8)

## 4. First aid measures

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

**Eyes:** Rinse immediately with plenty of water for at least 15 minutes. Get medical attention.

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

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

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## 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.

**Hazardous Combustion Products:** Carbon oxides, sulphur oxides

**Unusual Fire and Explosion Hazards:** 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:** Dust may form explosive mixture in air. Minimize dust generation and accumulation. Ensure adequate ventilation. Keep away from sources of ignition - No smoking. Refer to NFPA 654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids." 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 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

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appropriate to condition of use.

## 9. Physical and Chemical Properties

**Physical form:** solid (powder)

**Colour:** white

**Odour:** sweet

**Specific gravity:** not available

**Vapour pressure (at 170.0 °C (338.0 °F)) :** 0.67 mbar (0.5 mm Hg)

**Vapour density:** not applicable

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

**Melting point/range:** not available

**Water solubility:** soluble

**pH:** not applicable

**Flash point:**

**Flammability Limits:** Not specified

## 10. Stability and reactivity

**Stability:**

No exotherm to 450 °C by HPDTA

**Incompatibility:** Strong oxidizing agents.

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

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

## 11. Toxicological information

### Effects of Exposure

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

**Eyes:** Causes eye irritation.

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

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

## Acute Toxicity Data:

- Oral LD50 (male rat): > 3,200 mg/kg
- Dermal LD50: > 1,000 mg/kg
- Skin irritation: slight
- Skin irritation: slight (repeated skin application)
- Skin Sensitization: negative
- Eye irritation (washed eyes): moderate
- Eye irritation (unwashed eyes): moderate

## 12. Ecological information

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

### Potential Toxicity:

Toxicity to fish (LC50):	> 100 mg/l
Toxicity to fish (LC50):	3,200 mg/l (Exposure time: 96 hr) see user defined free text
Toxicity to fish (NOEC):	1,000 mg/l (Exposure time: 96 hr) see user defined free text
Toxicity to daphnia (EC50):	10 - 100 mg/l
Toxicity to algae:	> 100 mg/l
Toxicity to other organisms:	> 100 mg/l

**Persistence and degradability:** Not readily biodegradable.

**Chemical Oxygen Demand (COD):** 2 g/g

**Biochemical Oxygen Demand (BOD):** < 1 g/g

## 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

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## Other regulations

American Conference of Governmental Industrial Hygienists (ACGIH):	none
International Agency for Research on Cancer (IARC):	none
U.S. National Toxicology Program (NTP):	none
U.S. Occupational Safety and Health Administration (OSHA):	none
California Prop. 65:	none

## 16. Other information

The data below reflects current legislative requirements whereas the product in your possession may carry a different version of the label depending on the date of manufacture.

### US/Canadian Label Statements:

**WARNING!**  
**CAUSES EYE IRRITATION**  
**POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES**

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.

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.

**IN CASE OF SPILL:** Shovel into suitable container for disposal. Avoid dust formation. Clean surface thoroughly to remove residual contamination.

### Import/Export Tariff Classification:

**Export Control Classification Number:** EAR-99

**Harmonized Tariff System Number:** 2930.90.91.90

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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 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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