

## Material Safety Data Sheet

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

**Product name:** SODIUM METABISULFITE 50#

**Product code:** 20184193

**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.

**Product Use:** Film or paper manufacturing chemical  
For industrial use only.

### 2. Hazards identification

**CONTAINS:** Sodium metabisulphite (7681-57-4)

**WARNING!**  
**CAN DECOMPOSE AT ELEVATED TEMPERATURES**  
**MAY LIBERATE SULFUR DIOXIDE**  
**MAY BE HARMFUL IF INHALED OR SWALLOWED**  
**MAY CAUSE EYE IRRITATION**

**NFPA Hazard Ratings:** Health - 3, Flammability - 0, Instability - 1

NOTE: NFPA 704 (2007) hazard indexes involves data review and interpretation that may vary among companies. It is intended only for rapid, general identification of the magnitude of the potential hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

### 3. Composition/information on ingredients

| Weight % | Components (CAS-No.)              |
|----------|-----------------------------------|
| 100      | Sodium metabisulphite (7681-57-4) |

### 4. First aid measures

**Inhalation:** If inhaled, move to fresh air. Get medical attention.

**Eyes:** In case of contact, immediately flush eyes 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.

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**Ingestion:** If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

### 5. Fire-fighting measures

**Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Special Fire-Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products.

**Hazardous Combustion Products:** 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 and prolonged or repeated contact with skin. Use only with 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. Use only with adequate ventilation. 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

| Chemical Name         | Regulatory List | Value Type                 | Value          |
|-----------------------|-----------------|----------------------------|----------------|
| Sulphur dioxide       | ACGIH           | time weighted average      | 2 ppm          |
|                       | ACGIH           | Short term exposure limit  | 5 ppm          |
|                       | OSHA Z1         | Permissible exposure limit | 5 ppm 13 mg/m3 |
| Sodium metabisulphite | ACGIH           | time weighted average      | 5 mg/m3        |

**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

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special circumstances.

**Respiratory protection:** None should be needed. If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. A respirator should be worn if hazardous decomposition products are likely to be or have been released. Respirator type: Acid gas/N95 Particulate Filter. If respirators are used, a program should be instituted to assure compliance with applicable federal, state, commonwealth, provincial, or local laws and regulations.

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

**Skin and body protection:** Wear impervious gloves and protective clothing appropriate for the risk of exposure.

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

### 9. Physical and Chemical Properties

**Physical form:** solid (powder)

**Colour:** white

**Odour:** sulphur dioxide

**Specific gravity:** 1.40

**Vapour pressure (at 20.0 °C (68.0 °F)) :** negligible

**Vapour density:** not applicable

**Volatile fraction by weight:** negligible

**Melting point/range:** > 300.0 °C (> 572.0 °F)

**Water solubility:** soluble

**pH:** not applicable

**Flash point:** not applicable

### 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: 223 °C by DSC

**Incompatibility:** Acids, Strong oxidizing agents. Contact with strong acids liberates sulphur dioxide.

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**Hazardous decomposition products:** sulphur oxides.

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

### 11. Toxicological information

#### Effects of Exposure

**General advice:** In contact with strong acids or if heated, sulphites may liberate sulphur dioxide gas. Sulphur dioxide gas is irritating to the respiratory tract. Some asthmatics or hypersensitive individuals may experience difficult breathing.

**Inhalation:** May be harmful if inhaled. May cause irritation to the mucous membranes and upper respiratory tract. In contact with strong acids or if heated, sulphites may liberate sulphur dioxide gas. Sulphur dioxide gas is irritating to the respiratory tract. Some asthmatics or hypersensitive individuals may experience difficult breathing.

**Eyes:** May cause eye irritation.

**Skin:** Prolonged or repeated skin contact may cause irritation. This material has a low potential to cause allergic skin reactions; however, cases of human skin sensitization have been reported.

**Ingestion:** May be harmful if swallowed. Some asthmatics or sulfite-sensitive individuals may experience wheezing, chest tightness, stomach upset, hives, faintness, weakness and diarrhea. May cause irritation of the gastrointestinal tract if swallowed.

#### Acute Toxicity Data:

- Oral LD50 (male rat): 1,900 mg/kg
- Oral LD50 (female rat): 1,130 mg/kg
- Dermal LD50: > 1,000 mg/kg
- Skin irritation: slight
- Skin irritation: moderate (repeated skin application)
- Skin Sensitization: none
- Eye irritation: moderate to strong

Definitions for the following section(s): LOEL =lowest-observed-effect level, LOAEL = lowest-observed-adverse-effect, NOAEL = no observed-adverse-effect level, NOEL =no-observed-effect level.

#### Repeated dose toxicity:

- Oral (14-day, rat): NOEL; > 1105 mg/kg/day

### 12. Ecological information

The following properties are ESTIMATED from the components of the preparations.

#### Potential Toxicity:

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|                                     |                                                              |
|-------------------------------------|--------------------------------------------------------------|
| Toxicity to fish (LC50):            | 32 mg/l (Exposure time: 96 hr)                               |
| Toxicity to daphnia (EC50):         | 89 mg/l (Exposure time: 24 hr)                               |
| Toxicity to algae (EC50):           | 48 mg/l (Exposure time: 72 hr)                               |
| Toxicity to algae (EC50):           | 40 mg/l (Exposure time: 96 hr)                               |
| Toxicity to other organisms (EC50): | 56 mg/l (Exposure time: 17 hr) ( <i>Pseudomonas putida</i> ) |

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

### 13. Disposal considerations

Discharge, treatment, or disposal may be subject to federal, state, commonwealth, provincial, or local 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

#### Notification status

| Regulatory List | Notification status  | Other information                                            | Not listed |
|-----------------|----------------------|--------------------------------------------------------------|------------|
| EINECS          | y (positive listing) | -                                                            |            |
| TSCA            | y (positive listing) | On TSCA Inventory                                            |            |
| AICS            | y (positive listing) | -                                                            |            |
| DSL             | y (positive listing) | All components of this product are on the Canadian DSL list. |            |
| ENCS (JP)       | y (positive listing) | -                                                            |            |
| KECI (KR)       | y (positive listing) | -                                                            |            |
| PICCS (PH)      | y (positive listing) | -                                                            |            |
| INV (CN)        | y (positive listing) | -                                                            |            |

A N (Negative listing) indicates one or more component is either not on the public Inventory or is subject to exemption requirements. If additional information is needed contact Kodak.

#### Other regulations

|                                                                    |                                                                           |
|--------------------------------------------------------------------|---------------------------------------------------------------------------|
| American Conference of Governmental Industrial Hygienists (ACGIH): | Sodium metabisulphite: Group A4 (Not classifiable as a human carcinogen.) |
| International Agency for Research on Cancer (IARC):                | Sodium metabisulphite: 3 (Classification                                  |

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|                                                                                                                                                                 |                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| U.S. National Toxicology Program (NTP):                                                                                                                         | not possible from current data.)<br>No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.                 |
| U.S. Occupational Safety and Health Administration (OSHA):                                                                                                      | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.                                                 |
| U.S. California Prop. 65:                                                                                                                                       | none                                                                                                                                                                                        |
| US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323):                                                                            | Sodium metabisulphite                                                                                                                                                                       |
| US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000):                                       | No components are subject to Massachusetts Right To Know Act.                                                                                                                               |
| US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5):                                                           | Sodium metabisulphite                                                                                                                                                                       |
| US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required: | SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. |
| US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR355, Appendix A):            | SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.                                                                           |

### 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:

**CONTAINS: Sodium metabisulphite (7681-57-4)**

**WARNING!**  
**CAN DECOMPOSE AT ELEVATED TEMPERATURES**  
**MAY LIBERATE SULFUR DIOXIDE**  
**MAY BE HARMFUL IF INHALED OR SWALLOWED**  
**MAY CAUSE EYE IRRITATION**

Avoid breathing dust.  
Avoid contact with eyes and prolonged or repeated contact with skin.  
Use only with adequate ventilation.  
Wash thoroughly after handling.

**FIRST AID:** If inhaled, move to fresh air. Get medical attention. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

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Wash off with soap and water. Get medical attention if symptoms occur. If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Keep out of reach of children.

Do not handle or use until safety precautions in Material Safety Data Sheet (MSDS) have been read and understood.

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

**IN CASE OF FIRE:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

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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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R-1, S-2, F-0, C-2T