

### Section 1 - Product Identification & Use

Product Name: **Sodium Thiosulphate**  
 WHMIS Classification: Not controlled  
 TDG Classification: Not regulated  
 Supplier: Advance Chemicals Ltd.  
 2023 Kingsway Ave  
 Port Coquitlam, BC V3C 1S9  
 Phone: (604) 945-9666  
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### Section 2 - Hazardous Ingredients

Hazardous Components%	(w/w)	C.A.S. No.	LD <sub>50</sub> & LC <sub>50</sub>
Sodium thiosulphate	100	7772-98-7	Low toxicity

### Section 3 - Physical Data

Physical state: solid                      Boiling point: no data  
 Specific Gravity: 1.667                  Freezing point: no data  
 pH 1% solution: 8-9                      Vapour pressure: no data  
 Solubility in water: 33% @ 0°C        Evaporation rate: no data  
**Odour & Appearance:** White crystalline powder. No odour.

### Section 4 - Fire or Explosion Hazard

**Flammability:** The product is not considered to be flammable. Heating above 100°C yields a flammable residue sodium sulphide.  
**Extinguishing media:** Water. Wear full chemical protective clothing. Use an extinguishing media for surrounding the fire, or all purpose foam by manufacturer's recommended techniques for large fires. Use water to cool fire exposed containers to prevent vapour build-up and rupture.  
**Special Fire Fighting Procedures:** Use of a self-contained breathing apparatus (SCBA) and full protective equipment (Bunker Gear).

### Section 5 - Reactivity Data

**Stability:** Stable.  
**Hazardous Combustion/Decomposition Products:** Sulphur dioxide gas which is toxic, corrosive and an oxidizer, is driven off above 100°C leaving a sodium sulphide residue which is flammable, a strong irritant to skin and tissue and is also incompatible with acids.  
**Conditions to Avoid:** Temperatures above 100°C.  
**Materials to Avoid:** Strong oxidizers cause vigorous exothermic reactions. Acids release sulphur dioxide gas. Water-reactive materials such as sodium, cause a strong exothermic reaction with hydrate. A violent reaction occurs with sodium nitrate when water of crystallization has been driven off by heating.

### Section 6 - Toxicological Properties

**Inhalation:** May irritate respiratory tract.  
**Skin contact:** May irritate skin.  
**Eye contact:** May irritate or burn eyes.  
**Ingestion:** Material is non-toxic. Small amounts (tablespoon) swallowed during handling operations not likely to cause injury; swallowing larger amounts may irritate gastrointestinal tract.

### Section 7 - Preventative Measures

**Personal Protective Equipment:** Avoid contact with skin and eyes.  
**Respiratory protection:** Use an NIOSH/MSHA approved air purifying, dust, mist and particulate respirator.  
**Action to take for spills & leaks:** Wear chemical protective clothing, rubber gloves and suitable respiratory protection. Small spills should be swept or vacuumed up and disposed of in government approved waste containers. The spill area may then be flushed with large quantities of water. Larger spills should be contained by diking with sand, soil or other non-combustible material, then transferred into approved waste containers for proper disposal. Do not allow spilled, or waste product to flow into waterways. Keep product out of sewers, storm drains, surface run-off water and soil. Restrict access to non-protected personnel.

Comply with all government regulations on spill reporting, and handling and disposal of waste.

**Disposal methods:** Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, provincial and local regulatory agencies to ascertain proper disposal procedures. **Note:** Empty containers can have residues, gasses and mists, and are subject to proper waste disposal as mentioned above.

**Storage & Handling Precautions:** Causes eye, skin and respiratory irritation. Avoid contact with eyes and repeated contact with skin and clothing. Do not ingest. Keep container tightly closed when not in use. Store upright in a cool, dry, well ventilated place away from incompatible materials. Wash thoroughly after handling. Use with adequate ventilation.

### Section 8 - First Aid Measures

**If inhaled:** Remove victim to fresh air. Give artificial respiration if not breathing. Get immediate emergency medical attention. Keep patient warm and at rest.

**In case of eye contact:** Immediately flush eyes with clean luke warm water for at least twenty (20) minutes, lifting the upper and lower eye lids to ensure complete flushing action of the eyeball. Get immediate emergency medical attention. Do not transport victim until the recommended flushing period has been completed, unless eye flushing can be carried out during transport.

**In case of skin contact:** Immediately flush skin with plenty of clean running water for at least twenty (20) minutes. Remove contaminated clothing and shoes. If irritation persists, get emergency medical attention. Wash clothes before re-use.

**In case of ingestion or swallowing:** If victim is conscious, dilute stomach contents by giving one or two glasses of water or milk and induce vomiting by touching finger to back of throat. Never give anything by mouth to an unconscious victim. GET IMMEDIATE EMERGENCY MEDICAL ATTENTION.

### Section 9 - Preparation Information

Advance Chemicals Limited expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided. The information contained herein is offered only as a guide to the handling of this specific product, and has been prepared in good faith by technically knowledgeable personnel. This M.S.D.S. is not intended to be all inclusive, and the manner and conditions of use may involve other and additional considerations.

Prepared: 10 February, 1999  
 Revised: 5 February 2002; 16 January 2004; 27 March 2006; 27 December 2006