



E K Industries, Inc.

1403 Herkimer Street
Joliet, IL 60432-1059
(815) 723-4000
www.eki-chem.com

MATERIAL SAFETY DATA SHEET

PRODUCT Sodium Thiosulfate, Pentahydrate

PRODUCT CODES 9040; 9044

REVISION DATE 6/20/2011

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SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME Sodium Thiosulfate, Pentahydrate

PRODUCT CODES 9040; 9044

SYNONYMS N/I

CAS NUMBER 10102-17-7

FORMULA Na₂S₂O₃·5H₂O

FORMULA WEIGHT 248.19

REVISION DATE 6/20/2011

24 HOUR EMERGENCY TELEPHONE

CALL CHEMTREC (800) 424-9300

Contact CHEMTREC (Chemical Transportation Emergency Center) only in the event of emergencies involving a chemical spill, leak, fire, exposure or other accident.

SECTION 2 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION. MAY CAUSE IRRITATION.

PRECAUTIONARY MEASURES

Avoid contact with skin, eyes and clothing. Avoid breathing dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

ROUTES OF ENTRY AND EFFECTS OF OVEREXPOSURE

SKIN CONTACT MAY CAUSE IRRITATION.

EYE CONTACT MAY CAUSE EYE IRRITATION.

IF INHALED MAY CAUSE RESPIRATORY TRACT IRRITATION.

IF SWALLOWED MAY CAUSE GI IRRITATION.

CHRONIC N/I

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE N/I

TARGET ORGANS N/I

CARCINOGENICITY Sodium Thiosulfate, Pentahydrate is not listed by NTP, IARC or OSHA.



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SECTION 3 FIRST AID PROCEDURES

SKIN CONTACT Immediately wash with plenty of soap and water. Get medical attention for persistent irritation.

EYE CONTACT Immediately flush with plenty of water for at least 15 minutes, separating eyelids occasionally. Get medical attention for persistent irritation.

IF INHALED Remove to fresh air. Get medical attention for any breathing difficulty.

IF SWALLOWED Get medical attention.

SECTION 4 FIRE FIGHTING MEASURES

FLASH POINT (C) Not combustible.

EXPLOSIVE LIMITS (%) **UPPER** Does Not Apply. **LOWER** Does Not Apply.

AUTOIGNITION TEMPERATURE (C) Does Not Apply.

NFPA HAZARD IDENTIFICATION Health: 1 Flammability: 0 Reactivity: 0 Special Hazards: -

NFPA HAZARD IDENTIFICATION is *not* intended to address occupational exposure occurring under normal conditions of use. It only addresses hazards presented by Fire, Spill or Similar Emergencies. NFPA 704 2007 ed. 1.1 and 1.3.2(1).

EXTINGUISHING MEDIA Suitable for surrounding fire.

SPECIAL FIRE FIGHTING PRODECURES Fire fighters should wear self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS N/I

SECTION 5 ACCIDENTAL RELEASE MEASURES

IF SPILLED Moisten spill with water, scoop up and containerize for disposal.

WASTE DISPOSAL METHOD Dispose in accordance with all local, state and federal environmental regulations.



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SECTION 6 EXPOSURE CONTROL AND STORAGE

VENTILATION Local or general.

RESPIRATORY PROTECTION If necessary, NIOSH Approved Dust respirator.

EYE PROTECTION Chemical safety goggles and/or chemical face shield.

SKIN PROTECTION Vinyl gloves, lab coat.

STORAGE Store tightly closed at 15-30C.

SECTION 7 HAZARDOUS COMPONENTS AND EXPOSURE LIMITS

| COMPONENT | CAS NUMBER | OSHA PEL | ACGIH TLV |
|----------------------------------|------------|----------|-----------|
| Sodium Thiosulfate, Pentahydrate | 10102-17-7 | N/E | N/E |

Sodium Thiosulfate, Pentahydrate is not subject to the reporting requirements of SARA313 and 40CFR372.

SECTION 8 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-----------------------------------|------------------------|-------------------------------|------|
| APPEARANCE AND ODOR | White, odorless solid. | BOILING POINT (C) | >100 |
| SOLUBILITY IN WATER | Soluble. | EVAPORATION RATE | N/I |
| DENSITY / SPECIFIC GRAVITY | d 1.75 | VAPOR PRESSURE (mm Hg) | N/I |
| MELTING POINT (C) | 48 | VAPOR DENSITY | N/I |



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SECTION 9 STABILITY AND REACTIVITY

STABILITY Stable

CONDITIONS TO AVOID Excessive heat, moisture.

MATERIALS TO AVOID Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS NaOx, SOx.

HAZARDOUS POLYMERIZATION Will not occur.

DISCLAIMER:

E K Industries, Inc. makes no representation as to the comprehensiveness or accuracy of this information. Individuals using this information, or the product to which it refers, must exercise their independent judgment in determining all appropriateness for a particular purpose. Accordingly, E K Industries, Inc. will not be responsible for damages of any kind or nature resulting from the use of this information or the corresponding product. No representations or warranties of any kind or nature, including but not limited to: express warranties, implied warranties or merchantability, or warranties of fitness for a particular purpose, are made hereunder with respect to the information set forth herein or to the product to which the information refers.