# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

**SDS #:** 846.00

**Revision Date:** December 13, 2013

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## Winkler's Solution #1

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300 Signal Word WARNING

**Pictograms** 

## **SECTION 2 — HAZARDS IDENTIFICATION**

Hazard class: Specific target organ toxicity, repeated exposure (Category 2). May cause damage to organs through prolonged or repeated exposure (H373). Do not breathe mist, vapors or spray (P260). Do not eat, drink or smoke when using this product (P270).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Manganous Sulfate tetrahydrate	7785-87-7	MnSO <sub>4</sub> .4H <sub>2</sub> O	223.06	40%
Water	7732-18-5	$\mathrm{H_{2}O}$	18.00	60%
Synonym: Manganous sulfate solution				

#### **SECTION 4 — FIRST AID MEASURES**

Get medical advice or attention if you feel unwell (P314).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

If on skin: Wash with plenty of water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

## **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable, noncombustible solution.

**In case of fire:** Use a tri-class dry chemical fire extinguisher.

NFPA CODE

None established

# <u>SECTION 6 — ACCIDENTAL RELEASE MEASURES</u>

Ventilate area. Contain spill with sand or absorbent material; deposit in sealed bag or container. See Sections 8 and 13 for further information.

FLINN SCIENTIFIC, INC.

Safety Data Sheet

Winkler's Solution #1

**SDS #:** 846.00

**Revision Date:** December 13, 2013

#### **SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfates, thiosulfates and phosphates.

## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash thoroughly after handling.

#### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Pink liquid. Odorless.

Used to determine dissolved oxygen concentration.

# **SECTION 10 — STABILITY AND REACTIVITY**

Shelf life: Indefinite, if stored properly.

### **SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: N.A. ORL-RAT  $LD_{50}$ : N.A. Chronic effects: N.A. IHL-RAT  $LC_{50}$ : N.A. Target organs: N.A. SKN-RBT  $LD_{50}$ : N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

#### **SECTION 12 — ECOLOGICAL INFORMATION**

Data not yet available.

## **SECTION 13 — DISPOSAL CONSIDERATIONS**

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #27f is one option.

#### **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

N/A = Not applicable

## **SECTION 15 — REGULATORY INFORMATION**

Not listed.

#### SECTION 16 — OTHER INFORMATION

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating therefot. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.