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

**SDS #:** 375.10

**Revision Date:** December 13, 2013

#### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## **Glyoxal Solution**

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: Acute toxicity, oral and inhalation (Category 5). May be harmful if swallowed or inhaled (H303 +H333).

Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2B). Causes skin and eye irritation (H315+H320).

Hazard class: Sensitization, skin (Category 1). May cause an allergic skin reaction (H317). Avoid breathing mist, vapors or spray (P261).

Hazard class: Germ cell mutagenicity (Category 2). Suspected of causing genetic defects (H341). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281).



SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Glyoxal	107-22-2	$C_2H_2O_2$	58.04	40%
Water	7732-18-5	H <sub>2</sub> O	18.00	60%

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

If exposed or concerned: Get medical advice or attention (P308+P313).

**If inhaled:** Call a POISON CENTER or physician if you feel unwell (P304+P312).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing (P305+P351+P338). **If eye irritation persists:** Get medical advice or attention (P337+P313).

If on skin: Wash with plenty of water (P302+P352). If skin irritation occurs: Get medical advice or attention (P332+P313).

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

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

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

Safety Data Sheet

**Glyoxal Solution** 

**SDS #:** 375.10

**Revision Date:** December 13, 2013

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

Flinn Suggested Chemical Storage Pattern: Organic #3. Store with hydrocarbons, oils, esters, and aldehydes. Store in a cool, dry place.

## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash thoroughly after handling (P264). Exposure Guidelines: (as glyoxal) TLV 0.1 mg/m<sup>3</sup> (inhalable fraction) (ACGIH). Sensitizer.

## **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Yellow liquid. Odorless.

pH: 2.1 to 2.7

Specific gravity: 1.270

#### SECTION 10 — STABILITY AND REACTIVITY

Do not allow to become dry, glyoxal as a solid may be explosive in air. Avoid contact with strong oxidizers and strong bases. Shelf life: Indefinite, if stored properly.

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

Acute effects: Sensitizer. Skin, eye, and respiratory tract irritant. Somnolence and respiratory depression if ingested or inhaled.

Chronic effects: N.A.

Target organs: CNS, skin, eyes, respiratory tract.

ORL-RAT LD<sub>50</sub>: 200 mg/kg (as glyoxal) IHL-RAT LC<sub>50</sub>: 2410 mg/m<sup>3</sup>/4H (as glyoxal) SKN-RBT LD<sub>50</sub>: 10 mL/kg (as glyoxal)

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 #2 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

TSCA-listed, EINECS-listed (203-474-9).

#### **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 therefo. The data is offered solely for your consideration, investigation, and verification. The data is softened 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.