

# WARD'S

Ward's Natural Science Establishment, Inc.  
 200 Marine Avenue  
 Roseland, New Jersey 07068  
 (201) 991-2500

MSDS No. IX 160  
 Effective Date July 1, 1986

WATER-SOLUBLE IODINE SOLUTION  
 #540

## SECTION I NAME

**IODINE-POTASSIUM IODIDE, STARCH TEST SOLUTION**

**Formulation** I/I Solution, Starch Test

**Formula** I/I

**Net(s) Size** 100 ml, 500 ml, 1 liter.

**A.S. No.** None assigned

## 24 HOUR EMERGENCY ASSISTANCE

CHEMTREC  
 800-424-9300

Day 718-328-6177  
 Night 718-334-4222

HAZARD RATING

LEAST SLIGHT MODERATE HIGH EXTREME

0 1 2 3 4

Health 3  
 Fire 0  
 Reactivity 2

## SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

**Principal Hazardous Component(s)**

Iodine-Potassium Iodide Solution, Starch Test

(Iodine-Potassium Iodide water solution)

**DANGER** POISON HARMFUL IF INHALED OR SWALLOWED

**CORROSIVE**-CAUSES IRRITATION TO SKIN, EYES AND MUCOUS MEMBRANES.

## SECTION III PHYSICAL DATA

**Boiling Point (°F)** May freeze at 0°C

**Boiling Point (°C)** Approx. 100°C (212°F)

**Vapor Pressure (mm Hg)** 14 (water)

**Vapor Density (Air = 1)** 0.7 (water)

**Stability in Water** Complete

**Appearance and Odor** Deep-amber color liquid; iodine odor.

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

**Flammable Limits in Air** NA

**Flashpoint** NA

**Self-Heating** NA

**Stability** NA

**Reactivity** NA

**Special Precautions** NA

**Other Precautions** NA

**Special Firefighting** In fire conditions, wear a NIOSH-approved self-contained breathing apparatus and full protective clothing.

**Special Hazards** NA

**Special Precautions** NA

**Special Precautions** NA

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## SECTION V HEALTH HAZARD DATA

**Threshold Limited Value**

None established for this solution. (ACGIH 1983-84) Toxicity: Oral-human  
 TLV: As Iodine (Ceiling Limit) 0.1 ppm; 1 mg/m<sup>3</sup> (Air) LRLD: 2000 µg/kg

**Effects of Overexposure**

Contact as fumes or solution is intensely irritating to eyes, skin and mucous membranes.

In severe cases purging, excessive thirst and circulatory failure may develop.

**Emergency and First Aid Procedures**

**INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting. Follow by giving starch solution, milk, egg white or gruel. Call physician immediately.

**EYES:** In case of contact, flush eyes thoroughly with water. Holding eye lids open, flush thoroughly for at least 15 minutes. Get immediate medical attention.

**INHALATION:** If inhaled, remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention.

**SKIN:** Wash immediately with water.

**OTHER:** If on clothing, remove contaminated clothing.

## SECTION VI REACTIVITY DATA

**Stability** Stable

**Conditions to Avoid** Excessive temperature and heat.

**Incompatibility (Materials to avoid)** Contact of gaseous ammonia or its solution with free iodine should be avoided to prevent the formation of the explosive "nitrogen iodide". Acetaldehyde, Sodium hydride, Sodium hydroxide.

**Hazardous Decomposition Products** Free Iodine.

**Hazardous Polymerization** Will Not Occur

**Conditions to Avoid** None applicable.

**Other Precautions** None applicable.

**Other Precautions** None applicable.

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IX 160

July 1, 1986

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Chemical

Safety

Department

of Labor

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