

Safety Data SheetAccording to Regulation (EC) No. 1907/2006
OSHA Regulation 29 CFR 1910.1200
Canadian Regulation SOR/88-66

Revision Date: 2012-05-25
Reason for Revision: Section 14 Updated

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 70465 Hydrogen Peroxide Titration Reagent

Application: Hydrogen Peroxide Titration Reagent

Company Information (USA):

Hanna Instruments, Inc.
584 Park East Dr, Woonsocket, Rhode Island, USA 02895

Technical Service Contact Information:

1-800-426-6287 (8:30AM - 5:00PM ET)
+1-401-766-4260 (8:30AM - 5:00PM ET)

USA Emergency Contact Information:

1-800-424-9300 (Chemtrec 24Hr. Emergency)

International Emergency Contact Information:

+1-703-527-3887 (Chemtrec 24Hr. Emergency)

E-mail Address:

tech@hannainst.com

SECTION 2: HAZARD IDENTIFICATION

Harmful if swallowed. Irritating to respiratory system and skin.
Risk of serious damage to eyes.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component: Hydrogen Peroxide

EC-No.: 231-765-0

CAS-No.: 7722-84-1

Hazard: O, C

Phrases: R: 5-8-20/22-35

Content: > 35% - < 50%

SECTION 4: FIRST AID MEASURES

After Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

After Skin Contact: In case of contact, immediately wash skin with soap and copious amounts of water.

After Eye Contact: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

After Swallowing: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

General Information: Not available

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Special Risks:

Emits toxic fumes under fire conditions. Explosion Hazards: Container explosion may occur under fire conditions.

Special Protective Equipment:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Additional Information:

NA

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Environmental Precautions:

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

Additional Notes:

None

SECTION 7: HANDLING AND STORAGE

Handling:

Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage:

Keep tightly closed. Do not store near, nor allow contact with, clothing and other combustible material. Store at 2-8°C

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Type	Value	Source	Type	Value	Source
Hydrogen Peroxide (35%)					
TWA (8hr)	1.4 mg/m ³	Canada (Ontario)	TWA (8hr)	1.4 mg/m ³	Canada (Quebec)
TWA (8hr)	1.5 mg/m ³	Poland	TWA (8hr)	1.4 mg/m ³	USA (ACGIH)
TWA (8hr)	1 ppm	USA (OSHA)			

Engineering:

Mechanical exhaust required. Safety shower and eye bath.

Personal Protective Equipment:

As appropriate to quantity handled.

Respiratory Protection:

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator

Protective Gloves:

Compatible chemical-resistant gloves.

Eye Protection:

Chemical safety goggles.

Industrial Hygiene:

Wash thoroughly after handling.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance:	Clear liquid	Odor:	Odorless	Density at 20°C:	NA
Melting Point:	NA	Boiling Point:	126 °C	Solubility:	NA
pH at 20°C:	NA	Explosion Limit:	NA	Flash Point:	NA
Thermal Decomp.:	NA				

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SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Light.

Hazardous Polymerization:

Will not occur.

Further Information:

Not available

Hazardous Decomposition Products:

Oxygen

Substances to be Avoided:

Brass Copper, Copper alloys, Finely powdered metals, Galvanized iron Iron and iron salts.

SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

ACUTE TOXICITY

LD50 (Oral, Rat): 1,232 mg/kg (35% Solution)

LD50 (Skin, Rabbit): > 2,000 mg/kg (30% Solution)

Potential Health Effects:

Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

Skin Contact: Causes skin irritation. May be harmful if absorbed through the skin.

Eye Contact: Causes severe eye irritation.

Ingestion: Harmful if swallowed.

Component Toxicity

Acute Toxicity:

Not Available

Chronic Toxicity:

Not Available

Additional Data:

Not Available

SECTION 12: ECOLOGICAL INFORMATION

Quantitative data on the ecological effect of this product is not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

SECTION 14: TRANSPORTATION INFORMATION

	Land (ADR/RID):	Sea (IMDG):	Air (ICAO/IATA):
UN No.:	2014	2014	2014
Proper Shipping Name:	Hydrogen peroxide, aqueous solution	Hydrogen peroxide, aqueous solution	Hydrogen peroxide, aqueous solution
Class (Sub Risk):	5.1 (8)	5.1 (8)	5.1 (8)
Packing Group:	II	II	II

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Canadian Regulation SOR/88-66**SECTION 15: REGULATORY INFORMATION****Labeling according to EC Directives:****Symbol:** Xn: Harmful**R-phrases:** 22-37/38-41: Harmful if swallowed. Irritating to respiratory system and skin. Risk of serious damage to eyes.**S-phrases:** 17-26-28.1-36/37/39-45: Keep away from combustible material. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).**SECTION 16: OTHER INFORMATION****Text of R-phrases under Section 3**5: Heating may cause an explosion.
8: Contact with combustible material may cause fire.
20/22: Harmful by inhalation and if swallowed.
35: Causes severe burns.**Revision Information****Revision Date:** 2012-05-25
Supersedes edition of: 2009-06-10
Reason for revision: Section 14 Updated**Legend**NA: Not Applicable
ND: Not Determined

THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT.