

Revision Date: 2008-12-01

Reason for Revision: REACH Compliance and General Update

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 70405-0 Glucose/Fructose Standard

Additional Product Codes:

Application: For Chemical Analysis

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

Non-hazardous product as specified in Directives 67/548/EEC and 1999/45/EC.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component: Mixture of Crystalline Powders

EC-No.:

CAS-No.:

Hazard:

Phrases:

Content:

SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air.

After Skin Contact: Wash effected area with water and soap.

After Eye Contact: Rinse out with plenty of water for at least 15 minutes. If pain persists, summon medical advice.

After Swallowing: Consult a doctor if feeling unwell.

General Information: Not available

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Water, Carbon Dioxide, Foam, Powder

Special Risks:

Combustible. Danger of dust explosion.

Special Protective Equipment:

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Additional Information:

Contain escaping vapors with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES**Personal Precautions:**

Avoid inhalation of dusts.

Environmental Precautions:

None

Additional Notes:

None

SECTION 7: HANDLING AND STORAGE**Handling:**

No restrictions

Storage:

Keep container closed and protected from direct sunlight. Store at room temperature (+15°C to +25°C).

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION**Ingredients:****Engineering:**

Maintain general industrial hygiene practice.

Personal Protective Equipment:

As appropriate to quantity handled.

Respiratory Protection:

Required when dusts are generated.

Protective Gloves:

Rubber or plastic

Eye Protection:

Goggles or face mask

Industrial Hygiene:

Change contaminated clothing. Wash hands after working with substance.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES**Appearance:** White powder**Odor:** Odorless**Density at 20° C:** ND**Melting Point:** ND**Boiling Point:** ND**Solubility:** ~ 500 g/L**pH at 20° C:** ~ 6 @ 100 g/L**Explosion Limit:** ND**Flash Point:** ND**Thermal Decomp.:** NA**SECTION 10: STABILITY AND REACTIVITY****Conditions to be Avoided:**

Heating

Hazardous Polymerization:

Will not occur.

Further Information:

Dust explosion possible.

Hazardous Decomposition Products:

In the event of fire: See section 5.

Substances to be Avoided:

Halogenates, nitrates, permanganates, strong oxidizing agents

SECTION 11: TOXICOLOGICAL INFORMATION

The following data apply to Glucose as the pure substance:

Acute toxicity

LD50 (oral, rat): 25800 mg/kg.

Further toxicological information

Naturally occurring substance. Substance which occurs in the human body under physiological conditions.

In Case of Inhalation:

In Case of Skin Contact:

In Case of Eye Contact: Slight irritations.

In Case of Ingestion:

Further Data: The product should be handled with the usual care when dealing with chemicals. Property of this product must be anticipated on the basis from the components of the preparation

SECTION 12: ECOLOGICAL INFORMATION

The following data apply to Glucose as the pure substance:

Biologic degradation:

Biodegradation: 48 % /5 d (closed bottle test);

Biological degradability: good.

Behavior in environmental compartments:

Distribution: log p(o/w): -3.29;

No bioaccumulation is to be expected (log P(o/w) <1).

Ecotoxic effects:

Biological effects:

Fish toxicity: fish LC0: 60000 mg/L.

Further Data: No ecological problems are to be expected when the product is handled and used with due care and attention.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Can be safely disposed of as an ordinary refuse.

SECTION 14: TRANSPORTATION INFORMATION

Land:

Not subject to transport regulations

Sea:

Not subject to transport regulations

Air:

Not subject to transport regulations

SECTION 15: REGULATORY INFORMATION

Labeling according to EC Directives:

Symbol: Non-hazardous according to Directives 67/548/EEC and 1999/45/EC.

R-phrases:

S-phrases: 22-24/25: Do not breathe dust. Avoid contact with skin and eyes.

Contains:

SECTION 16: OTHER INFORMATION

Text of R-phrases under Section 3

Revision Information

Legend

Revision Date: 2008-12-01

NA: Not Applicable

Supersedes edition of: 2006-03-28

ND: Not Determined

Reason for revision: REACH Compliance and General Update

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.