

Safety Data Sheet

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

Revision Date: 2013-01-28

Reason for Revision: Regulation (EC) No. 1272/2008 Compliance

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 93730B-0 Molybdenum Reagent B

Application: Determination of Molybdenum in Water Samples

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

May intensify fire; oxidizer. May be harmful if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

According to Regulation (EC) No. 1272/2008:

Classification: Oxidising Solid (Category 3)

Acute Toxicity, Oral (Čategory 4)
Skin Irritation (Category 2)
Skin Sensitization (Category 1)
Eye Irritation (Category 2)

Respiratory Sensitization (Category 1)

Specific Target Organ Toxicity, Single Exposure (Category 3)

Signal Word: Danger

Pictograms:



Hazard H272: May intensify fire; oxidizer.

Statements: H305: May be harmful if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction. H319: Causes serious eye irritation.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

PrecautionP220: Keep/Store away from clothing/combustible materials.Statements:P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

According to Directives 67/548/EEC and 1999/45/EC:

Symbol: O: Oxidizing Xn: Harmful

R-phrases: 8-22-36/37/38-42/43: Contact with combustible material may cause fire. Harmful if swallowed. Irritating to eyes,

respiratory system and skin. May cause sensitization by inhalation and skin contact.

S-phrases: 22-24-26-37: Do not breathe dust. Avoid contact with the skin. In case of contact with eyes, rinse immediately with

plenty of water and seek medical advice. Wear suitable gloves.



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SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component: EC No: CAS No: Hazard Class: Phrases: Concentration:

Potassium persulphate 231-781-8 7727-21-1 Ox. Sol. 3 H272, H302, H315, > 60% - < 80% Acute Tox. 4 H317, H319, H334, H335 Skin Irrit. 2 R: 8-22-36/37/38-42/43

Skin Sens. 1 Eye Irrit. 2 Resp. Sens. 1 STOT SE 3 O, Xn, Xi

SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air.

After Skin Contact: Wash affected area with plenty of water. Remove contaminated clothing.

After Eye Contact: Rinse out with plenty of water. Summon ophthalmologist.

After Swallowing: Drink plenty of water, induce vomiting, obtain medical attention.

General Information: Not available

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Water spray, Carbon Dioxide, Dry Chemical Powder, Appropriate Foam.

Special Risks:

Fire-promoting (oxidizing). Keep away from combustible materials and sources of ignition and heat. Development of hazardous combustion gases or vapors possible in the event of fire. The following may develop in event of fire: Sulfur Oxides

Special Protective Equipment:

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

Additional Information:

Substance itself is non-combustible.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid generation of dusts. Do not inhale dusts. Avoid substance contact. Ensure supply of fresh air in enclosed rooms.

Environmental Precautions:

Do not discharge into the drains/surface waters/groundwater.

Additional Notes:

Take up dry. Clean up affected area and dispose according to local regulation.

SECTION 7: HANDLING AND STORAGE

Handling: Storage:

Avoid generation of dusts. Use appropriate personal protective equipment. Accessible only for authorized persons.

Store away from combustible materials and sources of ignition and heat. Protect from moisture.



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SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Type Value Source Type Value Source

Potassium Persulfate

TWA (8hr) 0.1 mg Canada (Ontario) TWA (8hr) 0.1 mg/m³ Poland

persulfate/m³

TWA (8hr) 0.1 mg/m³ Spain TWA (8hr) 1 mg/m³ UK

Engineering:

Maintain general industrial hygiene practice.

Personal Protective Equipment:

As appropriate to quantity handled.

Respiratory Protection: Protective Gloves: Eye Protection:

Required when dusts are generated. Rubber or plastic Goggles or face mask

Industrial Hygiene:

Change contaminated clothing. Wash hands after working with substance.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

White powder Appearance: Odor: Odorless Density at 20°C: ND Melting Point: ND **Boiling Point:** NA Solubility: ND pH at 20°C: **Explosion Limit:** Flash Point: 5.2 at 1.5 g/L in water NA NA

Thermal Decomp.: NA

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided: Hazardous Decomposition Products:

Heating In the event of fire: See section 5.

Hazardous Polymerization: Substances to be Avoided:

Will not occur. Combustible substances, reducing agents, peroxides, water, bases, strong

Further Information: alkalis, acids, metals and heavy metals, silver compounds



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SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

Quantitative data on the toxicity of this product is not available.

Potential Health Effects:

Inhalation: Irritation of the respiratory tract. Possibility of sensitization.

Skin Contact: Slight irritations. Possibility of sensitization.

Eye Contact: Irritations.

Ingestion: Risk of mucosal irritations, coughing, dyspnoea.

Further Data: Further hazardous properties cannot be excluded. The product should be handled with the usual care when dealing

with chemicals.

Component Toxicity

Acute Toxicity: Chronic Toxicity:

Not Available

Potassium Persulfate

LD50: Oral - Rat - 802 mg/kg

Additional Data:

Not Available

SECTION 12: ECOLOGICAL INFORMATION

Quantitative data on the ecotoxicity of this product is not available.

APPLICABLE TO PARTIAL COMPONENT:

The following applies to Potassium peroxodisulfate:

Ecotoxic effects:

Biological effects: toxic decomposition products form after reaction with water. Harmful effect on aquatic organisms.

Fish toxicity: P. reticulata LC50: 100 mg/L / 96 h.

Daphnia toxicity: Daphnia magna EC0: 180 mg/L / 24 h; Daphnia magna EC50: 357 mg/L / 24 h.

Bacterial toxicity: Ps. putida EC50: 36 mg/L.

Further Data: Do not allow to enter waters, waste water or soil!

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Chemical residues are generally classified as special waste and thus covered by local regulations. Contact local

authorities or disposal companies for advice. Handle contaminated packaging in the same way as the substance itself.

SECTION 14: TRANSPORTATION INFORMATION

Land (ADR/RID): Sea (IMDG): Air (ICAO/IATA):

UN No.: 1492 1492 1492

Proper Shipping Name: Potassium persulphate mixture Potassium persulphate mixture Potassium persulphate mixture

 Class (Sub Risk):
 5.1
 5.1
 5.1

 Packing Group:

SECTION 15: REGULATORY INFORMATION

Complies with European Regulations (EC) No. 1907/2006 and No. 1272/2008.

Complies with European Council Directives 67/548/EEC and 1999/45/EC.

Complies with OSHA Regulation 29 CFR 1910.1200.

Complies with Canadian Regulation SOR/88-66



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SECTION 16: OTHER INFORMATION

Text of phrases under Section 3

R8: Contact with combustible material may cause fire.

R22: Harmful if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

R42/43: May cause sensitization by inhalation and skin contact.

H272: May intensify fire; oxidizer.

H305: May be harmful if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

Revision Information

Revision Date: 2013-01-28 Supersedes edition of: 2012-05-21

Reason for revision: Regulation (EC) No. 1272/2008

Compliance

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.