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HI 84100-52 Sulphur Dioxide Acid Reagent Safety Data Sheet

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

Revision Date: 2013-08-30

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

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 84100-52 Sulphur Dioxide Acid Reagent

Application: Reagent for Wine 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

Causes severe skin burns and eye damage.

According to Regulation (EC) No. 1272/2008: Classification: Skin Corrosion (Category 1A)

Signal Word: Danger

Pictograms:

Hazard H314: Causes severe skin burns and eye damage.

Statements:

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

Statements: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

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

Symbol: C: Corrosive

R-phrases: 35: Causes severe burns.

S-phrases: 26-36/37/39-45: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear

suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical

advice immediately (show label where possible).

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

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

 Sulphuric acid
 231-639-5
 7664-93-9
 Skin Corr. 1A
 H314
 > 30% - < 50%</td>

 C
 R: 35

SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air. Summon doctor.

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

After Eye Contact: Rinse out with plenty of water for at least 10 minutes. Immediately call in ophthalmologist.

After Swallowing: Drink plenty of water (if necessary several liters), avoid vomiting (risk of perforation!). Immediately seek medical advice.

Do not attempt to neutralize.

General Information: Not available



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SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

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

Special Risks

Non-combustible. Hydrogen may form upon contact with metals (danger of explosion!) 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:

Product itself is non-combustible. Cool container with spray water from a safe distance. Contain escaping vapors with water. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Take up with liquid-absorbent material. Clean up affected area and dispose according to local regulation.

Environmental Precautions:

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

Additional Notes:

Render harmless: neutralize with diluted sodium hydroxide solution or by throwing on lime, lime sand, or sodium carbonate.

SECTION 7: HANDLING AND STORAGE

Handling:

Avoid generation of vapors/aerosols. Do not inhale substance.

Storage:

Tightly closed. In a well-ventilated place at +15 to +25 °C. Keep away from sources of ignition and heat. Accessible only for authorized persons.





Sulphur Dioxide Acid Reagent

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	Туре	Value	Source	Туре	Value	Source
Sulfuric Acid						
	TWA (8hr)	1 mg/m³	Belgium	TWA (8hr)	0.2 mg/m ³	Canada (Ontario)
	TWA (8hr)	1 mg/m³	Canada (Quebec)	TWA (8hr)	1 mg/m³	France
	TWA (8hr)	1 mg/m³	Greece	TWA (8hr)	1 mg/m³	Hungary
	TWA (8hr)	0.5 mg/m ³	Poland	TWA (8hr)	0.2 mg/m ³	Portugal
	TWA (8hr)	0.5 mg/m ³	Romania	TWA (8hr)	1 mg/m³	Spain
	TWA (8hr)	0.2 mg/m³	USA (ACGIH)	TWA (8hr)	1 mg/m³	USA (OSHA)

Engineering:

Safety shower and eye wash.

Personal Protective Equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

Respiratory Protection: Protective Gloves: Eye Protection:

Required when vapors/aerosols are generated. Work under hood.

Rubber or plastic

Goggles or face mask

Industrial Hygiene:

Immediately change contaminated clothing and immerse in water. Apply skin-protective barrier cream. Wash hands and face after working with substance. Work under hood. Do not inhale substance. Avoid generation of vapors/aerosols. Under no circumstances eat or drink at workplace.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Colorless liquid Odor: Odorless Density at 20°C: 1.58 g/cm3 Appearance: **Melting Point: Boiling Point:** Solubility: ND ND Soluble pH at 20°C: Flash Point: Explosion Limit: NA NA < 1

Thermal Decomp.: NA

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Strong Heating

Hazardous Polymerization:

Will not occur.

Further Information:

Hygroscopic. Has a corrosive effect. Incompatible with metals

Hazardous Decomposition Products:

In the event of fire: See section 5.

Substances to be Avoided:

Combustible substances, water, metals, metal alloys, alkali metals, alkali compounds, alkali hydroxides, alkali oxides, alkaline earth compounds, alkalis, ammonia, nitrates, sodium carbonate, lithium silicide, halogenhalogen compounds, salts of oxyhalogenic acids, bromates, chromates/perchromates, perchlorates, perchloric acid, permanganates, permanganic acid, organic nitro compounds, nonmetals, nonmetallic oxides, picrates, hydrogen peroxide, nitramide, mercury nitride, ammonium iron (III) sulfate dodecahydrate



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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: After inhalation of aerosols: damage to the affected mucous membranes.

Skin Contact: Severe burns with formation of scabs.

Eye Contact: Burns, corneal lesion.

Ingestion: Severe pain (risk of perforation!), nausea, vomiting and diarrhea.

Further Data: The product should be handled with the usual care when dealing with chemicals.

Component Toxicity

Acute Toxicity:

Sulfuric Acid

LC50: Inhalation - Rat - 510 mg/m³

LD50: Oral - Rat - 2140 mg/kg

Chronic Toxicity:

Sulfuric Acid

NTP: Known to be carcinogenic to humans

Additional Data:

APPLICABLE TO MAIN COMPONENT:

The following applies to Sulfuric acid, as the pure substance:

Specific symptoms in animal studies:

Eye irritation test (rabbit): burns.

Skin irritation test (rabbit): burns.

Toxicological values are not available due to other dangerous properties of the substance.

Subacute to chronic toxicity

Applicable to partial component(s):

Bacterial mutagenicity: Ames test: negative.

No teratogenic effect in animal experiments.

SECTION 12: ECOLOGICAL INFORMATION

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

APPLICABLE TO MAIN COMPONENT:

The following applies to SULFURIC acid, as the pure substance:

Biologic degradation:

Methods for the determination of biodegradability are not applicable to inorganic substances.

Behavior in environmental compartments:

Concentration in organisms is not to be expected.

Ecotoxic effects:

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

Further ecologic data:

The following applies to sulfuric acid: biological effects: harmful effect on aquatic organisms. Harmful effect due to pH shift. Toxic effect on fish and algae. Caustic even in diluted form. Does not cause biological oxygen deficit. Endangers drinking water supplies if allowed to enter soil and/or waters in large quantities. Neutralization possible in waste water treatment plants.

Daphnia toxicity: Daphnia magna EC 50: 29 mg/L/24 h (calculated on the pure substance).

Further Data: DO NOT ALLOW TO ENTER WATERS, WASTE WATERS, 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.



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SECTION 14: TRANSPORTATION INFORMATION

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

UN No.: 1830 1830 1830

Proper Shipping Name: Sulphuric acid Sulphuric acid Sulphuric acid Sulphuric acid

 Class (Sub Risk):
 8
 8
 8

 Packing Group:
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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

SECTION 16: OTHER INFORMATION

Text of phrases under Section 3

R35: Causes severe burns.

H314: Causes severe skin burns and eye damage.

Revision Information

Revision Date: 2013-08-30

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.