

ACID DEMAND REAGENT (ADR)

Product: CR-0005

Section 1: PRODUCT INFORMATION

Chemical family: Inorganic acid solution.

Product uses: Chemical.

Supplier: Lowry & Associates, Div. of Chem-Aquascience, Inc.
Canadian Master Distributors for Taylor Technologies Inc.
4-1151 Gorham Street
Newmarket, ON.
L3Y 8Y1
Tel: 905-836-0505
Fax: 905-895-4539.

Emergency Phone Number: Canutec 613-996-6666.

Manufacturer: Taylor Technologies Inc.
31 Loveton Circle
Sparks, MD USA 21152
Tel: 410-472-4340.

TDG classification: Not regulated.

WHMIS classification:

D2B



DSL status: The substance(s) listed in section 2 appear on the Domestic Substances List.

Section 2: HAZARDOUS INGREDIENTS

C.A.S.	CONCENTRATION %	Ingredient Name	T.L.V.	LD/50	LC/50
7664-93-9	<1	SULFURIC ACID	0.2 MG/M3	350 MG/KG RAT ORAL	510 MG/M3/2H RAT INHALATION 320 MG/M3/2H MOUSE INHALATION

Section 2A: ADDITIONAL INGREDIENT INFORMATION

Note: Balance: water (CAS# 7732-18-5).
(supplier).

Section 3: PHYSICAL DATA

Physical state: Liquid.

Appearance & odor: Odourless.
Clear, colourless.

Odor threshold (ppm): Not available.

Vapour pressure (mmHg): 17

Vapour density (air=1): .6

Volatiles (%)

By volume: 100

**Evaporation rate
(butyl acetate = 1):** Not available.

Boiling point (°C): 100

Freezing point (°C): Not available.

pH: 1.3

Specific gravity @ 20 °C: 1

Solubility in water (%): Soluble.

Coefficient of water\oil dist.: Not available.

Section 4: FIRE & EXPLOSION DATA

Flammability: Not flammable.

Conditions of flammability: Surrounding fire.

Extinguishing media: Dry chemical.
Carbon dioxide.

Special procedures: Wear a positive–pressure, self–contained breathing apparatus and full protective equipment.

Auto–ignition temperature (°C): Not applicable.

Flash point (°C), method: Not applicable.

**Lower flammability
limit (% vol):** Not applicable.

**Upper flammability
limit (% vol):** Not applicable.

Explosion Data

Sensitivity to static discharge: Not applicable.

Sensitivity to mechanical impact: Not applicable.

Hazardous combustion products: Oxides of sulfur (SO_x).
Hydrogen gas when in contact with metals.

Explosive power: Not applicable.

Section 5: REACTIVITY DATA

Chemical stability: Stable under normal conditions.

Conditions of instability: Contact with water.
Extreme temperatures.
Extreme heat.

Hazardous polymerization: Not available.

Incompatible substances: Strong alkalis.
Metals.

**Hazardous decomposition
products:** See hazardous combustion products.

Section 6: TOXICOLOGICAL PROPERTIES

Route of entry: Ingestion and skin contact.

Effects of acute exposure

Eye contact: Irritant.
May cause burns.

Skin contact: Irritant.
May cause burns.

Inhalation: May be harmful if inhaled.

Ingestion: May cause gastro-intestinal irritation.

Effects of chronic exposure: Pre-existing eye and skin disorders may be aggravated by exposure to this product.

LD50 of product, species & route: Not available for mixture, see the ingredients section.

LC50 of product, species & route: Not available for mixture, see the ingredients section.

Exposure limit of material: Not available for mixture, see the ingredients section.

Sensitization to product: Not available.

Carcinogenic effects: Not listed as a carcinogen.

Reproductive effects: Not available.

Teratogenicity: Not available.

Mutagenicity: Not available.

Synergistic materials: Not available.

Section 7: PREVENTATIVE MEASURES

Precautionary Measures

Gloves/Type:



General work gloves to minimize skin contact.

Respiratory/Type:



Wear a NIOSH approved respirator if TLV is exceeded.

Eye/Type:



Safety glasses.

Footwear/Type: Safety shoes per local regulations.

Clothing/Type:



Lab coat.

Other/Type: Eye wash facility should be in close proximity.
Emergency shower should be in close proximity.

Ventilation requirements: Provide sufficient mechanical ventilation to maintain exposure below TLV.

Leak/Spill: Absorb with inert material.
Wear appropriate protective equipment.
Neutralize with soda ash.
Place in a closed container for disposal.

Waste disposal: In accordance with municipal, provincial and federal regulations.

Handling procedures and equipment: Avoid breathing vapors/mists.
Use adequate ventilation.
Wear personal protective equipment appropriate to task.
Wash thoroughly after handling.
Avoid contact with skin, eyes and clothing.
Launder contaminated clothing prior to reuse.

Storage requirements: Keep out of direct sunlight.
Store in a cool and dry place.

Special shipping information: See transportation information.

Section 8: FIRST AID MEASURES

Skin contact: Remove contaminated clothing. Wash affected area with soap and water. Get medical attention.

Eye contact: Immediately flush with cool water for at least 20 minutes.
Hold eyelids apart to ensure flushing of entire eye surface.
Get medical attention.

Inhalation: Remove victim to fresh air.
If irritation occurs, consult a physician.

Ingestion: Never give anything by mouth to an unconscious person.
Drink a large amount of water.
Do not induce vomiting, seek immediate medical attention.

Additional information: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any inaccuracies.

Section 9: ADDITIONAL INFORMATION

General note: This material safety data sheet was prepared from information obtained from various sources, including product suppliers and the Canadian Center for Occupational Health and Safety.

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