

## ACID DEMAND REAGENT (ADR)

Product: R-0015

### Section 1: PRODUCT INFORMATION

**Chemical family:** Inorganic acid blend.

**Product uses:** Industrial material.

**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.  
905-625-9117 (Monday – Friday 9 a.m. – 4 p.m.).

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

**TDG classification:** Not regulated.

**WHMIS classification:** Not controlled.

**DSL status:** Not available.

### Section 2: HAZARDOUS INGREDIENTS

| C.A.S. | CONCENTRATION % | Ingredient Name          | T.L.V.        | LD/50         | LC/50         |
|--------|-----------------|--------------------------|---------------|---------------|---------------|
|        | <1              | NO HAZARDOUS INGREDIENTS | NOT AVAILABLE | NOT AVAILABLE | NOT AVAILABLE |

### Section 2A: ADDITIONAL INGREDIENT INFORMATION

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

### Section 3: PHYSICAL DATA

**Physical state:** Liquid.

**Appearance & odor:** Odourless.  
Clear  
Colourless.

**Odor threshold (ppm):** Not applicable.

**Vapour pressure (mmHg):** 17

**Vapour density (air=1):** .6

#### Volatiles (%)

**By volume:** 100

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

**Boiling point (°C):** 212F (100C)

**Freezing point (°C):** Not available.

**pH:** 2.3

**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<sub>x</sub>).

**Explosive power:** Contact with certain metals may yield explosive hydrogen gas.

#### Section 5: REACTIVITY DATA

**Chemical stability:** Stable under normal conditions.

**Conditions of instability:** Contact with incompatible substances.  
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:** May cause irritation.

**Skin contact:** May cause irritation.

**Inhalation:** No hazard known.

**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.

**LC50 of product, species & route:** Not available.

**Exposure limit of material:** Not available.

**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:**



NIOSH approved respirator, if necessary.

**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:** Ventilate adequately.

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

**Waste disposal:** Dispose of all waste in accordance with Local, State, and Federal regulations.

**Handling procedures and equipment:** 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 thoroughly with soap and water.  
Seek medical attention if irritation persists.

**Eye contact:** Immediately flush eyes with running fresh water for a minimum of 20 minutes.  
Hold eyelids open during flushing. Obtain medical attention immediately.

**Inhalation:** Remove victim to fresh air.  
If breathing is difficult get medical attention.

**Ingestion:** Give large quantities of water to drink.  
Never give anything by mouth to an unconscious person.  
Obtain emergency 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.

**Data prepared by:** Lowry & Associates, div. of Chem–Aquascience, Inc  
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