

# BASE DEMAND REAGENT (BDR)

Product: R-0862

## Section 1: PRODUCT INFORMATION

**Chemical family:** Inorganic alkali solution.

**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:**

D2B



**DSL status:** Appears on DSL.

## Section 2: HAZARDOUS INGREDIENTS

C.A.S.	CONCENTRATION %	Ingredient Name	T.L.V.	LD/50	LC/50
497-19-8	< 0.2	SODIUM CARBONATE	NOT AVAILABLE	4090 MG/KG RAT ORAL	2300 MG/M3/2H RAT INHALATION
				6600 MG/KG MOUSE ORAL	1200 MG/M3/2H MOUSE INHALATION

## Section 2A: ADDITIONAL INGREDIENT INFORMATION

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

## Section 3: PHYSICAL DATA

**Physical state:** Liquid.

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

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

**Vapour pressure (mmHg):** 17

**Vapour density (air=1):** 0.6

### Volatiles (%)

**By volume:** 99%

**Evaporation rate (butyl acetate = 1):** Not available.  
**Boiling point (°C):** 100–102  
**Freezing point (°C):** Not available.  
**pH:** 11  
**Specific gravity @ 20 °C:** 1  
**Solubility in water (%):** Soluble.  
**Coefficient of water/oil dist.:** Not available.  
**VOC:** Not available.

#### Section 4: FIRE & EXPLOSION DATA

**Flammability:** Not flammable.  
**Conditions of flammability:** Surrounding fire.  
**Extinguishing media:** Use appropriate extinguishing media for surrounding fire.  
**Special procedures:** Self-contained breathing apparatus required.  
Firefighters should wear the usual protective gear.  
**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:** Carbon dioxide (CO<sub>2</sub>).  
Oxides of sodium (NaO<sub>x</sub>).  
**Explosive power:** Not applicable.

#### Section 5: REACTIVITY DATA

**Chemical stability:** Stable under normal conditions.  
**Conditions of instability:** Excessive heat.  
Direct sunlight.  
Extreme temperatures.  
**Hazardous polymerization:** Not available.  
**Incompatible substances:** Strong acids.  
Aluminum (Al).  
Lithium (Li).  
Metals.  
Fluorine.  
Phosphorous pentoxide.

**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.

**Skin contact:** Irritant.

**Inhalation:** May be harmful if inhaled.

**Ingestion:** Irritant.  
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.

**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:**



Wear protective gloves.

**Respiratory/Type:** None required under normal use.



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:** Adequate general ventilation.

**Leak/Spill:** Wear appropriate protective equipment.  
Neutralize with diluted acid.  
Soak up with inert absorbent.  
Transfer to an approved container for disposal or recovery.

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

**Handling procedures and equipment:** Avoid breathing vapors/mists.  
Use adequate ventilation.  
Wash thoroughly after using, particularly before eating or smoking.  
Wear personal protective equipment appropriate to task.  
Avoid contact with skin, eyes and clothing.  
Do not take internally.  
Launder contaminated clothing prior to reuse.

**Storage requirements:** Store away from incompatible materials.  
Keep out of direct sunlight.  
Keep containers tightly closed.  
Store in a cool, dry and well ventilated area.

**Special shipping information:** Not regulated.

#### Section 8: FIRST AID MEASURES

**Skin contact:** Wash with water for at least 15 minutes.  
Get medical attention.  
Wash thoroughly with soap and water.

**Eye contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Get prompt medical attention.

**Inhalation:** Remove victim to fresh air.  
If breathing is difficult, obtain immediate medical attention.

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

**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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**Supplier MSDS date:** 2009/08/19

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