

CALCIUM BUFFER

Product: R-0653-2

Section 1: PRODUCT INFORMATION

Chemical family: Inorganic alkali solution.

Product uses: Chemical.

Supplier: Lowry & Associates
Agents for Taylor Technologies Inc.
4 – 1151 Gorham Street
Newmarket, Ontario
L3Y 7V1
Tel: 905-836-0505
Fax: 905-895-4539.

Emergency Phone Number: Canutec 613-996-6666.
410-472-4340

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

TDG classification: SODIUM HYDROXIDE SOLUTION
UN1824
Class 8
PG II.

WHMIS classification:

E, D1A.



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

Section 2: HAZARDOUS INGREDIENTS

| C.A.S. | CONCENTRATION % | Ingrédient | V.L.E. | DL/50 | CL/50 |
|-----------|-----------------|------------------|------------------|---|---------------|
| 1310-73-2 | <5 | SODIUM HYDROXIDE | 2 MG/M3 (CL) | NOT AVAILABLE | NOT AVAILABLE |
| 143-33-9 | 1 | SODIUM CYANIDE | 5MG/M3 SKIN (CL) | 4.7 MG/KG RAT ORAL 300 UG/KG RABBIT DERMAL | NOT AVAILABLE |

Section 2A: ADDITIONAL INGREDIENT INFORMATION

Note: Balance: water (CAS# 7732-18-5).
(supplier).
CAS# 1310-73-2: LD50 140-340 mg/kg oral rat (supplier).

Section 3: PHYSICAL DATA

Physical state: Liquid.

Appearance & odor: Odourless.
Colourless.
Clear

Odor threshold (ppm): Not applicable.

Vapour pressure (mmHg): 17

Vapour density (air=1): .6

Volatiles (%)

By volume: 95

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

Boiling point (°C): 215F (101.6C)

Freezing point (°C): Not available.

pH: 13.2

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: Carbon dioxide, dry chemical, foam.
Water spray.

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

Auto-ignition temperature: 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: Toxic and irritating vapours.

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

Section 5: REACTIVITY DATA

Chemical stability: Stable under normal conditions.

Conditions of instability: Extreme temperatures.
Extreme heat.
Reacts with acids to produce hydrogen cyanide.

Hazardous polymerization: Not available.

Incompatible substances: Strong acids.
Aldehydes.
Metals.
Organic halogens.

Hazardous decomposition products: See hazardous combustion products.

Section 6: TOXICOLOGICAL PROPERTIES

Route of entry: Ingestion and skin contact.

Effects of acute exposure

Eye contact: Causes eye burns.
Corrosive.
Corneal damage resulting in blindness.

Skin contact: Corrosive.
Causes burns.

Inhalation: May be harmful if inhaled.

Ingestion: Corrosive.
Causes burns to mouth, throat, esophagus, stomach.
Toxic

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.

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:



Rubber gloves.

Respiratory/Type:



NIOSH approved respirator, if necessary.

Eye/Type:



Safety glasses.

Footwear/Type: Safety shoes per local regulations.

Clothing/Type:



Wear a rubber apron.



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: Wear appropriate protective equipment.
Soak up with inert absorbent.
Place in a closed container for disposal.
Neutralize with sodium hypochlorite (bleach).

Waste disposal: Dispose of all waste in accordance with Local, State, 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.
Launder contaminated clothing prior to reuse.

Storage requirements: Store away from acids.
Keep out of direct sunlight.
Store in a cool, dry and well ventilated area.

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, obtain immediate medical attention.

Ingestion: Never give anything by mouth to an unconscious person.
Do not induce vomiting, seek immediate medical attention.
Give large amounts of water followed by milk or raw egg whites beaten in 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.

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| Section 9: ADDITIONAL INFORMATION |
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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
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