

CALCIUM INDICATOR LIQUID

Product: CR-0011L

Section 1: PRODUCT INFORMATION

Chemical family: Alcoholic organic dye 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: FLAMMABLE LIQUID, N.O.S. (isopropyl alcohol)
 UN1993
 Class 3
 PG II.



WHMIS classification:

B2, 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
102-71-6	77	TRIETHANOLAMINE	5 MG/M3	4920 UL/KG RAT ORAL 5846 MG/KG MOUSE ORAL 2200 MG/KG RABBIT ORAL > 20 ML/KG RABBIT DERMAL > 16 ML/KG RAT DERMAL	NOT AVAILABLE
2538-85-4	<1	CALCON	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
67-63-0	23	2-PROPANOL	200 PPM	5000 MG/KG RAT ORAL 3600 MG/KG MOUSE ORAL 6410 MG/KG RABBIT ORAL 12,800 MG/KG RABBIT DERMAL	53,000 MG/M3 MOUSE INHALATION 72,600 MG/M3 RAT INHALATION 16,000 PPM/8H RAT INHALATION

Section 2A: ADDITIONAL INGREDIENT INFORMATION

Note: (supplier).
CAS# 102-71-6: LD50 8680 mg/kg – rat oral.

Section 3: PHYSICAL DATA

Physical state: Liquid.

Appearance & odor: Ammonia odour.
Dark purple.

Odor threshold (ppm): Not available.

Vapour pressure (mmHg): Not available.

Vapour density (air=1): 2

Volatiles (%)

By volume: 99

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

Boiling point (°C): 260–315.5

Freezing point (°C): Not available.

pH: 10.3

Specific gravity @ 20 °C: 1.02

Solubility in water (%): Soluble.

Coefficient of water\oil dist.: Not available.

Section 4: FIRE & EXPLOSION DATA

Flammability: Flammable.

Conditions of flammability: Heat, sparks and open flames.

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

Special procedures: Use water to cool fire exposed containers.
Wear a positive-pressure, self-contained breathing apparatus and full protective equipment.
Use water fog to knock down vapours.

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 monoxide (CO).
Oxides of nitrogen (NO_x).
Explosive power: Not applicable.

Section 5: REACTIVITY DATA


Chemical stability: Stable under normal conditions.
Conditions of instability: Extreme temperatures.
Extreme heat.
Hazardous polymerization: Not available.
Incompatible substances: Strong acids.
Strong oxidizers.
Hazardous decomposition products: See hazardous combustion products.

Section 6: TOXICOLOGICAL PROPERTIES


Route of entry: Skin contact, inhalation and ingestion.
Effects of acute exposure
Eye contact: Irritant.
Skin contact: May cause dermatitis.
May stain skin.
May cause irritation.
Inhalation: Irritant.
May cause narcosis.
Ingestion: Irritant.
May cause severe irritation of the gastrointestinal tract.
Effects of chronic exposure: Pre-existing eye, skin and respiratory disorders may be aggravated.
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.
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, dry and well ventilated area.

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.
Obtain immediate medical attention.

Ingestion: Induce vomiting as directed by medical personnel.
Never give anything by mouth to an unconscious person.
Drink a large amount of water.
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
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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, Div. of Chem-Aquascience, Inc.
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