

CALCIUM INDICATOR LIQUID

Product: R-0011L

Section 1: PRODUCT INFORMATION

Chemical family: Alcoholic organic dye solution.

Product uses: Industrial material.

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: FLAMMABLE LIQUID, N.O.S. (isopropyl alcohol)
 UN1993
 Class 3
 PG II.



WHMIS classification:

B2, D2A, D2B.



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
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: Balance: water (CAS# 7732-18-5).
(supplier).
CAS # 102-71-6: LD50 8680 mg/kg – rat oral.

Section 3: PHYSICAL DATA

Physical state: Liquid.
Appearance & odor: Dark purple.
Ammonia odour.
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): 500-600F (260-315.5C)
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: Water spray.
Alcohol foam, dry chemical or carbon dioxide (CO₂).
Special procedures: Cool fire exposed containers with water spray.
Wear a positive pressure, self contained breathing apparatus and full protective equipment.
Use water spray to disperse vapors.
Auto-ignition temperature: Not available.
Flash point (°C), method: Closed Cup.
64F (17.7C)
**Lower flammability
limit (% vol):** 2
**Upper flammability
limit (% vol):** 12
Explosion Data
Sensitivity to static discharge: Not available.

Sensitivity to mechanical impact: Not available.

Hazardous combustion products: Carbon monoxide (CO).
Nitrogen oxides (NO_x).

Explosive power: Not available.

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 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.
Irritant.
May stain skin.

Inhalation: Irritant.
May cause narcosis.

Ingestion: Irritant.
May cause severe gastrointestinal distress.

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: May cause birth defects.

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.
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: Keep away from heat, sparks, and open flame.
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.
Keep away from ignition sources.
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 with water for at least 15 minutes.
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.
Obtain medical attention.

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.

Data prepared by: Lowry & Associates
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