

CONDUCTIVITY NEUTRALIZING SOLUTION

Product: R-7022

Section 1: PRODUCT INFORMATION

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



WHMIS classification:

B2, D2A, D2B.



DSL status: Not available.

Section 2: HAZARDOUS INGREDIENTS

C.A.S.	CONCENTRATION %	Ingredient Name	T.L.V.	LD/50	LC/50
67-63-0	< 40	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
77-09-8	< 1	PHENOLPHTHALEIN	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
77-92-9	< 10	CITRIC ACID	NOT AVAILABLE	3000 MG/KG RAT ORAL 5040 MG/KG MOUSE ORAL	NOT AVAILABLE

Section 2A: ADDITIONAL INGREDIENT INFORMATION

Note: Balance: water (CAS# 7732-18-5).
(supplier).
CAS# 77-09-8: LD50 >1000 mg/kg rat oral.

Section 3: PHYSICAL DATA

Physical state: Liquid.
Appearance & odor: Alcohol odour.
Clear
Colourless.
Odor threshold (ppm): Not available.
Vapour pressure (mmHg): 25
Vapour density (air=1): 1.6
Volatiles (%)
By volume: 94
**Evaporation rate
(butyl acetate = 1):** Not available.
Boiling point (°C): 82.2 (180°F)
Freezing point (°C): Not available.
pH: 2.1
Specific gravity @ 20 °C: 0.9
Solubility in water (%): Soluble.
Coefficient of water\oil dist.: Not available.
VOC: Not available.

Section 4: FIRE & EXPLOSION DATA

Flammability: Flammable.
Conditions of flammability: Vapours may cause fires.
Heat, sparks and open flames.
Extinguishing media: Water spray.
Alcohol foam, dry chemical or carbon dioxide (CO2).
Special procedures: Self-contained breathing apparatus required.
Firefighters should wear the usual protective gear.
Use water spray to disperse vapors.
Use water spray to cool fire exposed containers.
Auto-ignition temperature (°C): Not available.
Flash point (°C), method: Closed Cup.
25.5 (78°F)
**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: Toxic fumes.

Explosive power: Not available.

Section 5: REACTIVITY DATA

Chemical stability: Stable under normal conditions.

Conditions of instability: Avoid excessive heat, sparks and open flames.
Contact with incompatible substances.
Extreme temperatures.

Hazardous polymerization: Not available.

Incompatible substances: Oxidizers.

Hazardous decomposition products: Toxic fumes.

Section 6: TOXICOLOGICAL PROPERTIES

Route of entry: Skin contact, eye contact, inhalation and ingestion.

Effects of acute exposure

Eye contact: Irritant.

Skin contact: Irritant.

Inhalation: Irritant.
May cause narcosis.

Ingestion: Irritant.
May cause gastro-intestinal disturbances.

Effects of chronic exposure: Pre-existing eye, skin and respiratory disorders may be aggravated.
Contains an ingredient which may be corrosive.
May affect the liver and the kidneys.
May affect the adrenal glands.

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: Phenolphthalein is a group 2B carcinogen as per IARC.

Reproductive effects: May affect reproductive system.

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: Eliminate all sources of ignition.
Wear appropriate protective equipment.
Soak up with inert absorbent.
Transfer to an approved container for disposal or recovery.

Waste disposal: In accordance with municipal, provincial and federal regulations.
Incineration or sanitary land fill in accordance with local regulations.

Handling procedures and equipment: Keep away from heat, sparks, and open flame.
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 all sources of ignition.
Keep out of direct sunlight.
Store away from oxidizing materials.
Store in a cool, dry and well ventilated area.

Special shipping information: See transportation information.

Section 8: FIRST AID MEASURES

Skin contact: Wash thoroughly with soap and water.
Consult a physician if irritation persists.

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.
Call a physician immediately.

Ingestion: Obtain immediate medical attention.
Give large quantities of water to drink.
Induce vomiting as directed by medical personnel.
Never give anything by mouth to an unconscious person.

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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