

MATERIAL SAFETY DATA SHEET

Product Name: Membrane Preservative NLR 101 Date: 10-19-99

SECTION I- PRODUCT AND COMPANY INFORMATION

Manufacturer:

Dunwell New Logic (Asia Pacific) Ltd.
8 Wang Lee Street
Yuen Long Industrial Estate
Hong Kong

Telephone: (852) – 23910371

NFPA

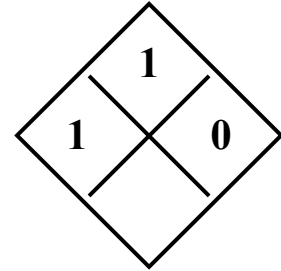
Codes:

Health: 1

Fire: 1

Reactivity: 0

Other: None



SECTION II – MATERIAL COMPOSITION

CHEMICAL NAME	CAS NO.	% BY VOLUME	% BY WEIGHT
Glycerin, USP 96%	56-81-5	50.0	55.5
Deionized Water	7732-18-5	45.6	40.2
Propionic Acid	79-09-04	3.6	3.2
Sodium Hydroxide, 50%	1310-73-2	.8	1.1
	TOTAL:	100	100

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Physical Appearance: Clear liquid with a vinegar-like odor.
Specific Gravity: 1.13 – 1.14
Solubility in Water: Complete
pH: 4.4 – 4.6
% Volatiles by Volume: 99 –100%
% Solids by Volume: 0 – 1.0%
Vapor Density: 0.24 for acid upon heating

SECTION IV – FIRE AND EXPLOSION DATA

Flashpoint: 184° F Tag Open Cup

LEL: N/A

UEL: N/A

Extinguishing Media:

Alcohol Foam, Dry, or Carbon Dioxide

Unusual Fire and Explosion Hazards:

Moderate fire hazard when exposed to heat or flame. Emits acrid fumes upon heating.

SECTION V – REACTIVITY DATA

Stability:	Stable
Conditions to Avoid:	Open flames and breathing in confined areas
Materials to avoid:	Keep separate from strong oxidizers or alkalis
Hazardous Decomposition:	Thermal decomposition products may include Carbon monoxide, carbon dioxide, sodium oxide And acrolein.

SECTION VI – HEALTH HAZARD DATA

HAZARD IDENTIFICATION:

Eyes:

Contact with eyes could cause irritation and possible corneal injury.

Skin:

Contact with skin could cause irritation, dermatitis, and possible burns.

Ingestion:

Ingestion could cause irritation and possible injury to the mucous membrane of the mouth, throat, and stomach.

Inhalation:

If misted or heated could cause irritation and possible injury to the respiratory tract and cause irritation of the mucosa in the nose, mouth, esophagus, and throat.

Prolonged exposure could result in injury to the respiratory tract.

Chronic Exposure:

Unknown

Conditions Aggravated:

Preexisting skin and breathing disorders

Carcinogen Information:

No component is known to be or listed as a carcinogen.

FIRST AID MEASURES:

Eyes:

Immediately flush with water for at least 15 minutes. Call a physician.

Skin:

Immediately remove and discard contaminated clothing or shoes. Flush skin with water for at least 15 minutes. Call a physician.

Inhalation:

Remove to fresh air. If breathing is difficult, give oxygen. Call a physician.

Ingestion:

Do not induce vomiting. Drink large quantities of water. If vomiting occurs, drink more water. Call a physician.

SECTION VII – HANDLING AND STORAGE PRECAUTIONS

Special Precautions and Storage:

Avoid contact with skin and eyes. Wash thoroughly after handling. For industrial Use Only.

Eye Protection:

Wear approved safety glasses, chemical goggles, or face shield.
Emergency eye wash station should be in close proximity to users.

Skin Protection:

Wear chemical resistant gloves, such as nitrile rubber. Impervious protective clothing is recommended to avoid skin contact. Emergency shower should be in close proximity to users.

SECTION VIII – DISPOSAL INFORMATION / SPILL OR LEAK PROCEDURES

ACCIDENTAL RELEASE MEASURES

Wear protective clothing. Flush with water. Use fog to control fumes.

DISPOSAL INFORMATION

Dispose of in accordance with all applicable federal, state and local regulations

EXPOSURE CONTROLS/PERSONAL

CHEMICAL	TLV	PEL	ACGIH STEL	OSHA STEL
Glycerin USP 96%	None	None	None	None
Deionized Water	None	None	None	None
Propionic Acid	N/A	N/A	10 ppm	10 ppm
Sodium Hydroxide, 50%	2mg/m ³	2 mg/m ³	N/A	N/A

TOXICOLOGICAL INFORMATION

Sodium Hydroxide	Irritation Data	
	LD50 Skin - Rabbit	50mg/24 hr - severe
	LD50 Eye - Rabbit	50mg/24 hr - severe

Propionic Acid	N/A
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ECOLOGICAL INFOREMATION

No information available

TRANSPORTATION INFORMATION

DOT Shipping Name: DOT – Not Regulated

UN/NA Number: None

OTHER

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and represent the best opinion on the subject as of the date on this sheet. Since the use of this information and the conditions of the use of the product are not under the direct control of New Logic Research, it is the user's obligation to determine conditions of safe use of the product.