

MATERIAL SAFETY DATA SHEET

Product Name: NLR 503

Date Prepared: 6-24-02

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

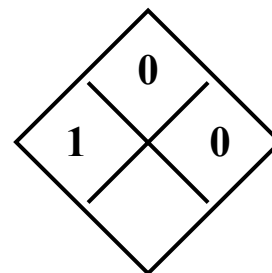
Codes:

Health: 1

Fire: 0

Reactivity: 0

Other: NA



SECTION II – MATERIAL COMPOSITION

Ingredient	CAS #	% by weight	OSHA PEL	ACGIH TLV
Citric Acid	7723-18-5	> 70	NA	NA
Tetrasodium EDTA	68915-31-1	<10	NA	NA
Sodium Hydroxide	1210-73-2	<5	2 mg/m ³	NA
Sodium Dodecylbenzenesulfonate	25155-30-0	<5	NA	NA
Non-hazardous surfactants	-	<5	NA	NA

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: Over 100 C
Vapor Pressure: Similar to water
Vapor Density: Similar to water
Solubility in Water: Miscible
Appearance: Yellow liquid

Specific Gravity: 1.14
Freezing Point: Similar to water
Evaporation Rate: Similar to water
pH of 100% approximately 12

SECTION IV – FIRE AND EXPLOSION DATA

This product does not support combustion

Flash Point: N/A

Flammability Limits

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

Special Fire Fighting Procedures: Non flammable, use appropriate media for surrounding fire

Unusual Fire and Explosion Hazards: None

SECTION V – REACTIVITY DATA

Stability: Product is stable

Incompatibility (Materials to Avoid): Reacts with acids, aluminum and zinc

Hazardous polymerization: Will not occur

SECTION VI – HEALTH HAZARD DATA

Emergency Overview: Causes severe burns to eyes, skin and mucous membranes.
Contact with eyes can cause permanent eye damage.

Primary Entry Routes: Eye contact, Skin contact, Ingestion, Inhalation of mist.

Potential Health Effects:

- Eyes: Contact with eyes can cause permanent eye damage.
- Skin: May cause irritation as well as reddening and inflammation.
- Inhalation: breathing of mist or spray may cause damage to the upper respiratory tract and lung tissue resulting in bronchitis and pneumonia.
Symptoms may be coughing and sneezing.
- Ingestion: Harmful. May cause severe chemical burns of mouth, throat, esophagus, and stomach

Chronic/Carcinogenicity

- NTP: Not Listed
- OSHA: Not Listed
- IARC: Not Listed

Medical Conditions Generally Aggravated by Exposure: None known

Emergency First Aid Procedures:

- Eyes: Flush eyes with water immediately for at least 15 minutes, holding eyelids apart to ensure flushing and rinsing of the entire surface.
GET IMMEDIATE MEDICAL ATTENTION
- Skin: Immediately wash contaminated areas with plenty of water for at least 15 minutes. Remove contaminated clothing and footwear and wash before reuse. GET IMMEDIATE MEDICAL ATTENTION

Ingestion: Do not induce vomiting. Rinse mouth with cool water. Drink several large glasses of water. Do not give an unconscious person anything to eat or drink. GET IMMEDIATE MEDICAL ATTENTION

Inhalation: Remove person to fresh air. If breathing is difficult then get immediate medical attention. If respiration stops then administer CPR.

SECTION VII – HANDLING AND STORAGE PRECAUTIONS

When handling this product use appropriate personal protective equipment.

Personal Protection

- Eyes/Face: Use chemical safety goggles plus full face shield to protect from splashing.
- Skin: Wear chemical resistant gloves and boots.
- Respiratory: Do not breathe vapors or mist. Use approved respirator if required.

Handling: Eye wash and safety shower should be located close to chemical exposure area. Provide local exhaust.

Storage: Store in a cool, dry, well ventilated location in suitable containers.

SECTION VIII – DISPOSAL INFORMATION / SPILL OR LEAK PROCEDURES

In Event of Spill or Release of Material, stop discharge and contain runoff by diking with appropriate inert absorbent. Sweep up material for recovery or disposal. If the spill is significant then contact the local government authority.

Environmental Effects: May be harmful to aquatic life.

Neutralizing Chemicals: neutralize carefully with dilute inorganic acids to a pH of 6 to 9.

Waste disposal: Dispose of waste material at an approved landfill site in accordance with local, state, and federal regulations.

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.