

Section I

Chemical Product and Company Identification

Product Identifier: AquaMulsion® Negative Developer
General Use: Developing images on pre-sensitized metal
Company: UEI® Systems, A UEI Group Company
Address: 9090 Nieman Road
Overland Park, KS 66214 USA
Phone: +1 800 221 9059 or +1 913 541 0503
Emergency Contact Number: CHEMTREC – Available 24 hours/day, 7 days/week
Domestic North America: +1 800 424 9300
International: +1 703 527 3887

Section II

Hazardous Ingredients / Identity Information

Hazardous Components	CAS No.	%	OSHA (PEL/TWA)	ACGIH TLV	MSHA (PEL/TWA)
Sodium Carbonate	497-19-8		15 mg/m ³ (total dust) 5 mg/m ³ (resp. fraction)	NA	10 mg/m ³

Section III

Hazard Identification

Emergency Overview: Irritating to the respiratory system and skin. Severe eye irritant.
Routes of Entry: Skin contact and absorption, eye contact, inhalation, ingestion
Carcinogenicity: NA
Medical Conditions: NA
Health Hazards (Acute and Chronic): May cause eye and skin irritation. Material is irritating to mucous membranes and upper respiratory tract.
Sign and Symptoms of Exposure: Symptoms of exposure may include burning sensation, coughing, sneezing, laryngitis, shortness of breath, headache, nausea and vomiting.

Section IV

First Aid Measures

In all cases, call a physician immediately.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Ingestion: Wash out mouth with water if the person is conscious. Call a physician.
Eye Contact: Flush eyes with large amounts of water for at least 15 minutes.
Skin Contact: Wash skin with soap and large amounts of water for at least 15 minutes.

Section V

Firefighting Measures

Flash Point: Non combustible
Flammable Limits: NA
Auto-ignition Temperature: NA
Extinguishing Media: Use extinguishing media appropriate to the surrounding fire conditions.

Section V

Firefighting Measures, cont.

Special Firefighting Procedures: Wear self-contained breathing and protective clothing to prevent skin and eye contact. Product emits toxic fumes under fire conditions.

Unusual Fire and Explosion Hazards: NA

Section VI

Accidental Release Measures

In case of accidental release, evacuate the area. Clean-up personnel should wear respirators, chemical safety goggles, rubber boots and heavy rubber gloves. Sweep up the spilled material, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete. Ensure compliance with local, state, and federal regulations in the use of any waste containment program.

Section VII

Handling and Storage

Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Keep product in a tightly closed container and store in a cool dry place. Product is hygroscopic.

Section VIII

Exposure Controls and Personal Protection

Engineering Controls: Mechanical exhaust required

Personal Protection: NIOSH/MSHA-approved respirator, compatible chemical-resistant gloves, and chemical safety goggles. Wash thoroughly after handling.

Section IX

Physical and Chemical Properties

Boiling Point: NA

Melting Point: NA

Freezing Point: NA

Vapor Pressure: NA

Vapor Density (Air = 1): NA

Solubility in Water: 33.2% maximum

pH: 11.4 (1% solution)

Specific Gravity (Water = 1): 2.509

Viscosity: NA

Evaporation Rate (Water = 1): NA

Appearance and Odor: White to off-white granular powder with no odor

Section X

Stability and Reactivity

Stability: Stable

Conditions to Avoid: Aluminum powder, acids, fluorine, molten lithium

Incompatibility: Strong acids

Hazardous Decomposition/

By-Products: Carbon Monoxide, Carbon Dioxide, Sodium/Sodium Oxides

Hazardous Polymerization: Will not occur

Section XI

Toxicological Information

Eye Effects: Severe irritant (rabbit) (Toxicology 23:281 (1982))

Skin Effects: Non-irritating to intact skin. Minor irritation may occur on abraded skin. (Toxicol. Appl. Pharmacol. 31:481 (1975))

Dermal LD50: No data available

Oral LD50: 4,090 mg/kg (rat) (RTECS 1986)

Inhalation LC50: 2.3 mg/l (2 h) (rat) (Environ. Res. 31:138 (1983))

Sensitization: 0.25% sodium carbonate: Non-sensitizing (human) (Toxicol. Appl. Pharmacol. 31:481 (1975))

Target Organs: Eyes

Acute Effects: May cause severe irritation of the eyes, including corneal opacities. Dusts and mists may be irritating to the skin, mucous membranes and upper respiratory tract. No significant acute toxicological effects expected.

Chronic Effects: No data available

Carcinogenicity:	NTP	IARC	OSHA	Other
	Not listed	Not listed	Not listed	Not listed

Carcinogenicity Comment: There are no known reports of carcinogenicity of sodium carbonate.

Section XII

Ecological Information

Ecotoxicity Effects: 96-hour LC50 = 265 – 565 mg/L (daphnia magna) (low toxicity)

96-hour LC50 = 300 – 320 mg/L (blue gill sunfish) (low toxicity)

No significant toxicity to aquatic organisms is expected.

Section XIII

Disposal Information

Industrial Setting: Observe all applicable Federal, Provincial and State regulations and Local/Municipal ordinances regarding disposal.

Section XIV

Transport Information

	Proper Shipping Name	Class	UN-Number	Packaging Group
LAND TRANSPORT				
US DOT and Canadian TDG				
Surface Transportation:				
	Not regulated	Not regulated	Not regulated	Not regulated
SEA TRANSPORT				
IMDG:	Not regulated	Not regulated	Not regulated	Not regulated
AIR TRANSPORT				
ICAO/IATA:	Not regulated	Not regulated	Not regulated	Not regulated

Section XV

Regulatory Information

U.S. TSCA Inventory Status: All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Canada DSL Inventory Status: All ingredients of this product are listed or are excluded from listing on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

CERCLA/SARA Section 302: Not listed

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Section XV

Regulatory Information, cont.

SARA (311, 312) Hazard Class: Immediate (acute) health hazard
The Threshold Planning Quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs.

CERCLA/SARA Section 313: Not listed

California Prop. 65: This product is not subject to the reporting requirements under California's Proposition 65.

WHMIS Hazard Classification: D.2.B, E

Section XVI

Other Information

UEI Systems provides the information contained herein in good faith. It is believed to be correct. However it is not all-inclusive and should be used only as a guide. Individuals receiving this information must exercise their independent judgement in determining its appropriateness for a particular purpose. UEI Systems shall not be held liable for any damage resulting from handling or from contact with this product. All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources.

Abbreviations: PEL Permissible Exposure Limit
TLV Threshold Limit Value
NA Not Applicable