



# MATERIAL SAFETY DATA SHEET

Revision Date: 29/08/2013

Date Issued: 29/08/2013

## ADVANCE<sup>®</sup> 510-B

### I. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

TRADE NAME: ADVANCE<sup>®</sup> 510  
PRODUCT CLASS: POLYACRYLATE  
CHEMICAL FAMILY: AQUEOUS DISPERSION POLYACRYLATE  
HEALTH: DANGEROUS

INFORMATION ON  
MANUFACTURER/SUPPLIER: EL NERVION S.A DE C.V.  
ALDAMA # 5, SAN. JERÓNIMO TEPETLACALCO,  
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MÉXICO  
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### II. COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	COMPONENTS	CAS NUMBER	CONCENTRATION [%]
01	WATER-BASED RESIN POLYACRYLATE	CONFIDENTIAL	50.00
02	PASTA COLOUR CONCENTRATED	NOT AVAILABLE	30.00
03	TEXANOL	25265-77-4	4.45
04	DISTILLED WATER	9430-46-1	14.00
05	RHEOLOGY MODIFIER	NOT AVAILABLE	0.30
06	SPECTRUM HIGH FUNGICIDA	26530-20-1	0.25
07	WIDE RANGE BIOCIDA	26172-55-4	0.25
08	UV LIGHT ABSORBER	NOT AVAILABLE	0.30
09	UV LIGHT STABILIZER	CONFIDENTIAL	0.25
10	PINE OIL	NOT AVAILABLE	0.20

### III. HAZARDS IDENTIFICATION

#### Emergency Overview

#### Physical Appearance

Form: Liquid  
Colour: Transparent and / or pigmented  
Odour: Characteristic  
Water solubility: Soluble  
pH: 7-8



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**EXPOSURE EFFECTS:** Flammable. They could be freed toxic gases / vapors during combustion and / or thermal decomposition. A closed container can explode with extreme heat. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Vapors or mist may present a risk of fire and explosion if exposed to high heat or ignition. Vapors may travel to areas outside the work place before turning on / back to vapor source. Ground containers and equipment before making the transfer to avoid static sparks. Has been associated with prolonged and repeated occupational exposure to solvents with brain damage and nervous system permanently. Intentional misuse by deliberately concentrating or inhaling solvents may be harmful or fatal. Cause respiratory tract irritation. May cause allergic respiratory reaction. Harmful if inhaled. Airways. The damage to the lungs and respiratory sensitization may be permanent. Cause skin irritation. May cause allergic skin reaction. Skin sensitizer.

### Potential health effects

**OVER-EXPOSURE (prolonged or repeated use):** **CAN AGGRAVATE OR ACCENTUATE ANY OF THESE EFFECTS.**

**SKIN CONTACT:** Irritating. Harmful in contact with skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**INHALATION:** Has been associated repeated and prolonged occupational overexposure to solvents with brain damage and permanent nervous system. Intentional misuse by deliberately concentrating and inhaling solvents can be harmful or fatal.

**EYES CONTACT:** Irritating. It can cause blindness. Severe eye irritation.

**INGESTION:** Chronic exposure to organic solvents has been associated with various neurotoxic effects including permanent brain and nervous system.

Medical conditions aggravated: Eye disorders skin disease and allergies. Adverse effects on the skin (such as rash, irritation or corrosion). Adverse ocular effects (such as conjunctivitis or corneal damage). Asthma. Adverse respiratory effects (such as cough, chest tightness or shortness of breath).

**PRIMARY ROUTE(S) OF ENTRY:** Skin contact, inhalation, contact, ingestion, eyes.

### Carcinogenicity:

No carcinogenic substances as defined by IARC, NTP and / or OSHA.

## IV. FIRST AID MEASURES

### GENERAL ADVICE

Consult a physician. If breathing has stopped or is labored, give assisted respiration. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

### Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical attention.



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### Skin contact

In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Call a physician if irritation develops and persists. Thoroughly clean shoes before reuse. Wash contaminated clothing before reuse.

### Eye contact

In case of contact, flush eyes with lukewarm water. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Seek medical attention if irritation develops.

### Ingestión

If swallowed, do not induce vomiting unless directed by medical personnel. Seek medical attention.

## V. FIRE-FIGHTING MEASURES

FLASH POINT: approx. 136.4°F (58°C) @1,013 hPa (DIN EN ISO 2719)  
Not applicable (water-based product) without  
however, the solid support combustion if the water  
has evaporated

LOWER EXPLOSIVE LIMIT: 1.0% (V)

UPPER EXPLOSIVE LIMIT: 7.5% (V)

AUTOIGNITION TEMPERATURE: 779 °F (415 °C) (DIN 51794)

FLAMMABILITY-OSHA: COMBUSTIBLE - CLASS I

OSHA FLAMMABILITY CLASSIFICATION: FLAMMABLE LIQUID

**SUITABLE EXTINGUISHING MEDIA:** alcohol resistant foam, carbon dioxide, dry chemical, water fog (water spray for large fires), dry sand, limestone powder.

**SPECIFIC HAZARDS DURING FIRE FIGHTING:** In case of fire, cool containers at risk with water. Closed containers may explode if heated strongly. Flammable liquid. Vapors can travel to an ignition source and generate a setback. Explosive mixtures are formed at temperatures at or above the flash point. The staff at risk is downwind should be evacuated.

**EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:** Not applicable.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:** As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Can generate ammonia gas can generate toxic gases of nitrogen oxides, incomplete combustion may produce carbon monoxide, carbon dioxide, toxic gases or fumes.

**OSHA FLAMMABLE CLASS:** Combustible Liquid, Class I.



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### VI. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear suitable protective clothing, gloves and eye/face protection. Use self-contained breathing equipment and chemical protective clothing. Evacuate personnel to safer areas.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Ventilate area, remove sources of spark or flame, and remove with inert absorbent.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

◆ **SMALL SPILL:** ABSORB LIQUID ON PAPER, VERMICULITE, FLOOR ABSORBENT OR OTHER ABSORBENT MATERIAL AND BINDING ON PROPER DISPOSAL.

◆ **LARGE SPILL:** ELIMINATE ALL IGNITION SOURCES. PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN COMPLETED. STOP SPILL AT SOURCE DIKE AREA OF SPILL TO PREVENT SPREADING, PUMP LIQUID TO SALVAGE TANK. REMAINING LIQUID WAY BE TAKEN UP ON SAND CLAY, EARTH, FLOOR ABSORBENT AND SHOVEL INTO CONTAINERS. PREVENT RUN-OFF TO SEWERS, STREAMS OR OTHER, BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES AS REQUIRED THAT A SPILL HAS OCCURED.

**WASTE DISPOSAL METHOD:**

◆ **SMALL SPILL:** ALLOW VOLATILE PORTION TO EVAPORATE IN HOOD. ALLOW SUFFICIENT TIME FOR VAPOURS TO COMPLETELY CLEAR HOOD DUCT WORK. DISPOSE OF REMAINING MATERIAL IN ACCORDANCE WITH APPLICABLE REGULATIONS.

◆ **LARGE SPILLS:** DESTROY BY LIQUID INCINERATION. CONTAMINATED ABSORBENT WAY DEPOSITED IN LANDFILL IN ACCORDANCE WITH LOCAL STATE AND FEDERAL REGULATIONS.

### VII. HANDLING AND STORAGE

#### HANDLING

##### General Procedures Handling

##### Advice on Safe Handling:

Use gloves chemically resistant to this material. Examples of preferred barrier materials for gloves include: Polyethylene, Ethyl vinyl alcohol laminate (EVAL) Polyvinyl alcohol ("PVA") Viton. Examples of acceptable glove barrier materials are Neoprene Butyl rubber. Natural rubber ("latex") Polyvinyl Chloride ("PVC" or vinyl) Nitrile / butadiene rubber ("nitrile" or NBR). NOTE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into consideration relevant factors in the workplace such as, but not



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limited to: Other chemicals which may be handled, requirements physical (protection against cuts / punctures, dexterity, thermal protection), potential body reactions to glove materials, well as the instructions / specifications provided by the glove supplier. Use respiratory protection when spray applied. Ensure adequate ventilation. Use only in well ventilated areas. Avoid breathing vapors or aerosols. Avoid contact with skin and eyes. Emergency showers and eyewash stations should be readily accessible. It must obey and follow the rules established working practices by government regulations. Avoid contact with eyes. Use personal protective equipment. When using material NOT EAT, DRINK OR SMOKE.

Advice on protection against fire and explosion: Take necessary action avoid static charges; keep away from sources of ignition.

#### STORAGE

##### Requirements for storage areas and containers

Keep containers tightly closed in cool, well-ventilated place.

##### Shelf life:

12 months @ 77°F (25°C): After the date of manufacture.

##### Further Information

Keep tightly sealed in original packing. Do not store in reactive metal containers.

### VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Engineering measures

Provide for good ventilation if vapours/aerosol are formed.

Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

#### Personal protective equipment

**General protective measures:** Avoid contact with eyes and skin.

##### Hygiene measures:

No smoking, eating or drinking allowed when using this product. Wash hands before breaks and at end of work shift or using the toilet.



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<b>Respiratory protection:</b>	Wear appropriate respirator when ventilation is inadequate. In case of formation of vapors/aerosols: respiratory protective equipment, cartridge for <b>organic gases and vapors</b> .
<b>Hand protection:</b>	Use gloves chemically resistant to this material. Examples of preferred barrier materials for gloves include: Polyethylene. Ethyl vinyl alcohol laminate (EVAL) Polyvinyl alcohol ("PVA") Viton. Examples of acceptable glove barrier materials include: Butyl rubber Neoprene. Natural rubber ("latex") Polyvinyl Chloride ("PVC" or "vinyl") Nitrile / butadiene rubber ("nitrile" or "NBR").
<b>Eye protection:</b>	Chemical resistant goggles must be worn.
<b>Protective clothing:</b>	Light protective clothing is required.

#### IX. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Liquid
<b>Colour:</b>	Transparent and / or pigmented
<b>Odour:</b>	Characteristic
<b>Water solubility:</b>	Soluble
<b>pH:</b>	7-8 (diluted with water in 1:4 ratio)
<b>Melting temperature:</b>	Not determined
<b>Boiling temperature:</b>	> 203°F (95°C)
<b>Vapour pressure:</b>	Approximately 30 hPa @ 68 °F (20°C) (EG A4) Approximately 140 hPa @ 122 °F (50°C) (EG A4) Approximately 175 hPa @ 131 °F (55°C) (EG A4)
<b>Flash point:</b>	Approx. 136.4°F (58°C) @ 1,013 hPa (DIN EN ISO 2719) Not applicable (water-based product), however, the solid support combustion if has evaporated water
<b>Density:</b>	0.9800 - 1.5000 g/cm <sup>3</sup>
<b>Viscosity:</b>	1,500 - 3,500 cps approx.

#### X. STABILITY AND REACTIVITY

<b>Thermal decomposition:</b>	The decomposition products depend on the temperature, the air supply and the presence of other materials. Gases are released during decomposition.
<b>Hazardous reactions:</b>	No hazardous reactions know with proper storage and handling.



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<b>Hazardous polymerization:</b>	Not occur by itself
<b>Stability:</b>	This product is stable under normal storage conditions.
<b>Hazardous decomposition products (<u>BY FIRE, BURNING OR WELDING</u>):</b>	During a fire, smoke may contain the original material products with combustion of varying composition which may be toxic and / or irritating. The combustion products may include but are not limited to: carbon monoxide. Carbon dioxide (CO <sub>2</sub> ).
<b>Materials to avoid:</b>	Avoid contact with water reactive.
<b>Conditions to avoid:</b>	Avoid exposure to high temperatures and contact with sources of ignition (sparks, flames, etc.).
<b>Dangerous reactions:</b>	No determined.

### XI. TOXICOLOGICAL INFORMATION

<b>LD50 (ACUTE ORAL TOX):</b>	No determined.
<b>LD50 (ACUTE DERMAL TOX):</b>	No determined.
<b>LD50 (ACUTE INHALATION TOX):</b>	No determined.
<b>EFFECTS OF CHRONIC EXPOSURE:</b>	Not available.
<b>SENSITIZATION:</b>	No determined.
<b>CARCINOGENICITY:</b>	No determined.
<b>REPRODUCTIVE TOXICITY:</b>	No determined.
<b>TERATOGENICITY:</b>	No determined.
<b>MUTAGENECITY:</b>	No determined.

### XII. ECOLOGICAL INFORMATION

#### Movement and distribution

No determined.

#### Persistence and Degradability

No determined.

#### Biodegradation Tests (OECD):

No determined.

#### ECOTOXICITY:

No determined.



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### XIII. DISPOSAL CONSIDERATIONS

The arrangement shall be in accordance with environmental control laws federal, state and local existents. Incineration is the preferred method.

**Product disposal and Disposal requirements:**

In accordance with local authority regulations, take to special waste incineration plant.

**Contaminated packaging:**

Empty containers are waste product, observe all precautions for product. Do not heat or cut empty containers with electric or gas welding because they form highly toxic vapors and gases. If empty contaminated containers are recycled or disposed of, the receiver must be informed about the possible dangers.

**HOT OR NOT EMPTY CONTAINERS WITH CUTTING WELDING TORCH GAS OR ELECTRIC.**

### XIV. TRANSPORT INFORMATION

**DOT (INLAND)**

Proper Shipping name:	ADVANCE® 510
Class:	3
UN/ID No:	1263
Packing Group:	III
Risk Label:	3

**IATA/ICAO (AIR)**

Proper Shipping name:	ADVANCE® 510
Class:	3
UN/ID No:	1263
Packing Group:	III
Risk Label:	3

**IMDG/IMO (SHIPPING)**

Proper Shipping name:	ADVANCE® 510
Class:	3
UN/ID No:	1263
Packing Group:	III
Risk Label:	3





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### XV. REGULATORY INFORMATION

#### Federal regulations of the United States

Standard Classification Hazard Communication OSHA: **dangerous**

#### HMIS RATINGS

#### XVI. OTHER INFORMATION

#### NFPA RATING

##### Clasificación NFPA 704M

HEALTH: 2  
FLAMMABILITY: 1  
RAECTIVITY: 0  
OTHERS: G

0 = Insignificant  
1 = Slight  
2 = Moderate  
3 = High  
4 = Extreme

##### Clasificación HMIS

HEALTH: 2  
FLAMMABILITY: 1  
PHYSICAL HAZARD: 0

0 = Insignificant  
1 = Slight  
2 = Moderate  
3 = High  
4 = Extreme  
\* = Chronic Hazard for Health.

THE INFORMATION PROVIDED IN THIS SAFETY DATA SHEET IS CORRECT TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF AT THE DATE OF ITS PUBLICATION. THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT TO BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. THE INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS, UNLESS SPECIFIED IN THE TEXT.

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