



MATERIAL SAFETY DATA SHEET

Revision Date: 22/10/2013

Date Issued: 22/10/2013

ADVANCE® 400-DTM

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

TRADE NAME: ADVANCE® 400-DTM
PRODUCT CLASS: ACRYLIC-STYRENE
CHEMICAL FAMILY: COPOLYMER
HEALTH: DANGEROUS.

INFORMATION

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

ITEM	COMPONENTS	CAS NUMBER	CONCENTRATION [%]
01	COPOLYMER RESIN ACRYLIC-STYRENE	CONFIDENTIAL	60.00
02	ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	10.00
03	PASTA COLOUR CONCENTRATED	VARIOUS	11.00
04	DIETHYLENE GLYCOL MONOETHYL ETHER	111-90-0	0.80
05	PROPYLENE	108-65-6	0.27
06	CORROSION INHIBITOR	CONFIDENTIAL	0.55
07	UV LIGHT ABSORBER	CONFIDENTIAL	0.06
08	UV STABILIZER	CONFIDENTIAL	0.06
09	WATER	7789-20-0	4.00
10	RHEOLOGY MODIFIER	N.D.	1.00
11	WIDE RANGE BIOCIDES	26172-55-4	0.04
12	DISPERSANT	N.D.	1.00
13	ANTIFOAM	N.D.	0.50

III. HAZARDS IDENTIFICATION

Emergency Overview

Physical Appearance



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Form:	Liquid
Colour:	Pigmented
Odour:	Characteristic, slightly ammoniacal
Water solubility:	Partially soluble
pH:	N/A

Potential health effects

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

SKIN CONTACT: Irritating. May cause drying and irritation of the skin, prolonged and repeated exposure can cause dermatitis. May be absorbed through the skin.

INHALATION: Irritant. Excessive exposure to vapors or mist is irritating to the respiratory tract, may cause headaches, nausea, vomiting, difficulty breathing and loss of consciousness.

EYE CONTACT: Irritating. May cause severe eye irritation.

INGESTION: Harmful if swallowed. Burning sensation in the digestive tract, nausea or vomiting.

MEDICAL CONDITIONS AGGRAVATED: May cause dermatitis and deliberately prolonged exposure may cause central nervous system effects, liver and kidneys.

PRIMARY ROUTE (S) OF ENTRY: Skin contact, Inhalation, Contact, Ingestion, Eyes.

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 inhalation of mist or spray, take the affected person and take it to a cool place immediately. Appearance of any inconvenience include severe irritation of the mucus lining of the (nose, throat and eyes), sneezing, coughing and tears flow. In case of persistent discomfort, seek medical attention immediately. If breathing has stopped or is labored give assisted respirations, supplemental oxygen may be indicated. If the heart has stopped trained personnel should begin cardiopulmonary resuscitation immediately, move to a place with fresh air. Keep the person warm and at rest.



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Skin Contact

Immediately remove contaminated clothing, and change chemical if possible to do so without delay. Wash immediately with plenty of soap and water for at least 20 minutes. Remove contaminated clothing and shoes.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, or if necessary with an eyewash solution. If you have persistent discomfort, consult an ophthalmologist.

Ingestion

Malaise If medical attention immediately. **Do not induce vomiting.** If the person vomit and is lying on her back, will be placed in the recovery position, prevent aspiration of vomit, turn the victim's head to the side.

V. FIRE-FIGHTING MEASURES

FLASH POINT:	Not determined
LOWER EXPLOSIVE LIMIT:	Not applicable
UPPER EXPLOSIVE LIMIT:	Not applicable
AUTOIGNITION TEMPERATURE:	not applicable

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 positive pressure apparatus and respirator (MSHA / NIOSH approved or equivalent) and full protective gear.

HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete combustion may produce carbon monoxide, carbon dioxide, toxic gases or fumes.

VI. ACCIDENTAL RELEASE MEASURES

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



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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ventilate area, remove or remove possible sources of sparks or flame and stir-absorbent inert material.

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 TRANSFER TO HOOD.

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

Tips for safe handling: Wear respiratory protection when applying for spray.
 Ensure adequate ventilation. Use only in well ventilated areas.

Avoid contact with eyes.
When using material NOT EAT, DRINK OR SMOKE.

STORAGE

Requirements for storage areas and containers.

Keep containers tightly closed in a cool, dry, well-ventilated area.

Life:

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

Additional Information:

Keep sealed in its original packaging, do not store in reactive metal containers.



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VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures

Provide for good ventilation if vapours/aerosol are formed.

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.

Respiratory protection: Wear appropriate respirator when ventilation is inadequate. In case of formation of vapors/aerosols: respiratory protective equipment, cartridge for organic gases and vapors.

Hand protection: Gloves made of butyl (IIR)
Neoprene gloves
The breakthrough time of the selected glove(s) must be greater than the intended use period.

Eye protection: Safety glasses should be worn resistant.

Protective clothing: Light protective clothing is required.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Pigmented
Odour:	Characteristic, lig. ammonia
Water solubility:	Insoluble
pH:	N/A
Melting temperature:	Not applicable
Boiling temperature:	Not applicable
Vapour pressure:	Not applicable
Flash point:	Not determined
Density:	1.1000 - 1.2000 g/cm ³
Viscosity :	6,000 - 8,000 cPs (Brookfield)



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X. STABILITY AND REACTIVITY

Thermal decomposition:	Not determined
Hazardous reactions:	No hazardous reactions known if handled and stored properly the material.
Hazardous Polymerization:	Not
Stability:	This product is stable under normal conditions storage.
Hazardous decomposition products (BY <u>FIRE, BURN OR WELDING</u>):	Carbon dioxide (CO ₂), carbon monoxide (CO), nitrogen oxides (NO _x), dense black smoke, traces of other toxic.
Materials to avoid:	none
Conditions to Avoid:	Heat, open flame, electric arc and sparks.
Hazardous reactions:	Not determined.

XI. TOXICOLOGICAL INFORMATION

LD50 (ACUTE ORAL TOX):	No data available for this product.
LC50 (ACUTE INHALATION TOX):	No data available for this product.
EFFECTS OF CHRONIC EXPOSURE:	No data available for this product.
CARCINOGENICITY:	No data available for this product.
REPRODUCTIVE TOXICITY:	No data available for this product.
TERATOGENICITY:	No data available for this product.
MUTAGENICITY:	No data available for this product.

XII. ECOLOGICAL INFORMATION

No ecotoxicological studies are available. The product is considered a water pollutant. Do not allow to enter the soil, water or sewage. According to the provisions of the Ministry of Environment and Natural Resources in air, water, soil and waste.



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XIII. DISPOSAL CONSIDERATIONS

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

Provision of products and

requirements for disposal: According to local regulations, will take the incineration of hazardous waste.

Contaminated Packaging:

Empty containers with product residues; observe all precautions for the product. Not hot or weld empty containers cut electric or gas because vapors and gases are formed highly toxic. If empty contaminated packaging are recycled or disposed of, the receiver must be informed about potential hazards.

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

XIV. TRANSPORT INFORMATION

Regard to transport general communication pathways land and related support services in relation to the regulations for the inland transport of hazardous materials and wastes, the Secretariat of Communications and Transport:

DOT (LAND TRANSPORT)

Shipping name:	Advance® 400 DTM
Class:	Not considered hazardous for transport purposes (1)
UN NUMBER/No. ID:	Not applicable
Packing Group:	Not applicable

Further information: No hazardous

IATA/ICAO (AIRCRAFT)

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UN NUMBER/No. ID:	Not applicable
Packing Group:	Not applicable

Further information: No hazardous



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IMDG/IMO (SHIPPING)

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Class:	Not considered hazardous for transport purposes (1)
UN NUMBER/No. ID:	Not applicable
Packing Group:	Not applicable

Further information: No hazardous

(1)NOM-002-SCT-2003 Column 5 "Special Provisions", warning that paints are not considered within class 3 (flammable liquid) or class 8 (corrosive), are not subject to the provisions for the Transport of Materials and Wastes.

XV. REGULATORY INFORMATION

Federal Regulations of the United States

Standard classification Hazard	Dangerous
Communication OSHA:	

XVI. OTHER INFORMATION

NFPA RATINGS 704M

HEALTH:	1
FLAMMABLE:	1
REACTIVITY:	0
OTHER:	G

HMIS RATING

HEALTH:	1
FLAMMABILITY:	1
PHYSICAL HAZARD:	0

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

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

AND ALL THIS INFORMATION IS FURTHER TECHNICAL ADVICE BASED ON CURRENT KNOWLEDGE AND EXPERIENCE SA DE CV NERVION BELIEVED TO THIS INFORMATION IS ACCURATE TO THE DATE OF PUBLICATION BY THE BEST KNOWLEDGE OF NERVION SA DE CV THE INFORMATION PROVIDED IS INTENDED ONLY AS A GUIDE FOR SAFETY, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND DOWNLOAD AND NOT TO BE CONSIDERED AS A GUARANTEE OR SPECIFICATION OF QUALITY. INFORMATION REFERRED TO IN SPECIFIC DESIGNATED MATERIAL AND IS NOT VALID FOR SUCH MATERIALS USED IN COMBINATION WITH ANY OTHER MATERIALS OR PROCESS UNLESS SPECIFIED IN THIS INFORMATION COME. RESPONSIBILITY AND LIABILITY IS THE CUSTOMER'S



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