MATERIAL SAFETY DATA SHEET

Revision Date: 12/07/2013
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ACRYNER® 25

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

TRADE NAME:	ACRYNER® 25
PRODUCT CLASS:	ACRYLIC
CHEMICAL FAMILY:	SYNTHETIC RESINS
HEALTH:	DANGEROUS.
INFORMATION MANUFACTURER/SUPPLIER:	EL NERVION S.A DE C.V. ALDAMA # 5, SAN. JERÓNIMO TEPETLACALCO, TLALNEPANTLA, EDO. MÉXICO, 54090 MÉXICO
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II. COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	COMPONENTS	CAS NUMBER	CONCENTRATION [%]
01	ALKID RESIN	CONFIDENTIAL	31,74
02	ADDITIVES	MIX	4,16
03	PIGMENT	VARIOUS	20,00
04	SYNTHETIC ACRYLIC RESIN	CONFIDENTIAL	23,00
05	METHYL TOLUENE	1330-20-7	21,10

III. HAZARDS IDENTIFICATION

Emergency Overview

Physical Appearance

Form:	Liquid
Colour:	Pigmented
Odour:	Characteristic
Water solubility:	Insoluble
pH:	N/A

EFFECTS OF EXPOSURE: Flammable. Gases could be released / toxic fumes during combustion and / or thermal decomposition. A closed container can explode with extreme heat. Use cold water spray to cool fire containers to minimize risk of rupture. Vapors or mist may present a risk of fire and explosion when exposed to extreme heat or ignition. Vapors may travel to areas outside the workplace before turning on / back to vapor source. Containers should be grounded and the equipment before making the transfer to

avoid static sparks. It has been associated with repeated and prolonged occupational exposure to solvents with brain and nervous system permanently. Intentional misuse by deliberately concentrating and inhaling solvents can be harmful or fatal. Causes respiratory tract irritation. May cause allergic respiratory reactions. Harmful if inhaled. Airways. The lung damage and respiratory sensitization may be permanent. Cause skin irritation. May cause allergic skin reaction.

Potential health effects

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

SKIN (CONTACT AND ABSORPTION): May cause drying and irritation of the skin, with and repeated and prolonged exposure may cause dermatitis. May be absorbed through the skin.

INHALATION: 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: May cause severe eye irritation.

INGESTION: Burning sensation in the digestive tract, nausea or vomiting. Breathing of small amounts of this product into the respiratory system during ingestion or vomiting may cause severe lung damage.

MEDICAL CONDITIONS AGGRAVATED: May cause dermatitis and prolonged exposure can cause deliberate central nervous system effects, liver and kidneys. Women over-exposed to xylene may have menstrual disorders and pregnancy complications. Xylene (methyl toluene) is not classified as a human carcinogen A4 in NOM-010-STPS-1999.

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
Remove from exposure area to fresh air inmediately. If breathing stops, apply artificial respiration. Keep the person warm and at rest. Give medical attention inmediately.

Skin Contact
Immediately remove contaminated clothing and shoes, wash affected area with soap and water, until the chemical is removed (15-20 min.). Give medical attention inmediately. Decontaminate clothing and shoes before reuse.

Eye Contact
Rinse inmediately with plenty of water until free of the chemical, up and down the eyelids (15-20 min.). Give medical attention inmediately.

Ingestion
Never give a drink to an unconscious person, do not induce vomiting, if conscious give drink two or three glasses of water to dilute material in the stomach. If vomiting occurs naturally, keep your head down to prevent aspiration. Repeat the treatment with water and seek medical attention as soon as posible.

V. FIRE-FIGHTING MEASURES

FLASH POINT:	**41-50°F**
LOWER EXPLOSIVE LIMIT:	**1.0% (Xylene)**
UPPER EXPLOSIVE LIMIT:	**7.3% (Xylene)**
AUTOIGNITION TEMPERATURE:	**932 °F**
FLAMABILIDAD-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 backlash. The 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 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.

OSHA FLAMMABLE CLASS: Combustible liquid, Class I.

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 safe areas.

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 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

Tips for safe handling: Wear respiratory protection when applying for spray. Ensure adequate ventilation. Use only in well ventilated areas. Avoid breathing vapors or aerosols. Avoid contact with skin and eyes. Sprinklers emergency eyewash stations should be easily accessible. They obey and must follow the rules work practices established by government regulations.

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

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

STORAGE

Requirements for storage areas and containers.

Keep containers tightly closed in a cool, dry, well-ventilated area. Areas containing this material should have fire safe practices and electrical equipment in accordance with applicable regulations. The standar is based primarily on the flash point of materials, however may be taken into account other properties such as

miscibility with water or toxicity. All local and national regulations should be applied. In the United States the standar 30 of the National Association for Fire Protection (NFPA in English), is know as code and combustible liquids which is widely used. The NFPA 30 establishes storage conditions for the following storage classes: Class I Flammable Liquids, Flash Point < 100.04 °F Class II Combustible Liquids, Flash Point > 199.4 °F Store in a cool, dry, well ventilated, and also keep the container tightly closed. Prevent the formation of flammable gas mixtures. Protect against electrostatic charges. (Earthing on the transfer process). Vapors may form explosive mixtures with air.

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.

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.

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: Chemical resistant goggles must be worn.

Protective clothing: Light protective clothing is required.

ACRYNER® 25

IX. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Pigmented
Odour:	Characteristic
Water solubility:	Insoluble
pH:	N/A
Melting temperature:	No determined
Boiling temperature:	No determined
Vapour pressure:	No determined
Flash point:	41,0 to 50,0 °F
Density:	0.9000 – 1.2000 g/cm³
Viscosity :	80,0 – 150,0 seconds (Ford Cup 4)

X. STABILITY AND REACTIVITY

Thermal decomposition: Not determined

Hazardous reactions: No hazardous reactios known if handled and stored properly the material.

Hazardous Polymerization: Not

Stability: This product is stable under normal conditions storage.

Hazardous decomposition products(BY *FIRE, BURN OR WELDING):* Carbon dioxide (CO_2), carbon monoxide (CO), nitrogen oxides (Nox), dense black smoke, hydrocarbons.

Materials to avoid: Not determined

Conditions to Avoid: heat, open flame, electric arc and sparks.

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.

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: In accordance with local standards, will be the incineration of hazardous waste.

Contaminated Packaging: Empty containers with product residues; observe all precautions for the product. Not Hot or cut empty containers with solder electric or gas because they are vapors and gases highly toxic. If empty contaminated containers are recycled or disposed of, the receiver must be informed about potential hazards.

HOT OR NOT CUT THE EMPTY CONTAINERS OR WITH ELECTRIC WELDING GAS TORCH.

XIV. TRANSPORT INFORMATION

DOT (LAND TRANSPORT)

Shipping name:	Acryner® 25
Class:	3
UN NUMBER/No. ID:	1263
Packing Group:	II
Risk Label:	3

IATA/ICAO (AIRCRAFT)

Shipping name:	Acryner® 25
Class:	3
UN NUMBER/No. ID:	1263
Packing Group:	II
Risk Label:	3

IMDG/IMO (SHIPPING)

ACRYNER® 25

Shipping name:	Acryner® 25
Class:	3
UN NUMBER/No. ID:	1263
Packing Group:	II
Risk Label:	3

XV. REGULATORY INFORMATION

Federal Regulations of the United States

Standard classification Hazard Communication OSHA: Dangerous

HMIS RATINGS — XVI. OTHER INFORMATION — NFPA RATING

NFPA RATINGS 704M

HEALTH:	2
FLAMMABLE:	3
REACTIVITY:	0
OTHER:	G

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

HMIS RATING

HEALTH:	2
FLAMMABILITY:	3
PHYSICAL HAZARD:	0

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

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