

## 1 - PRODUCT AND COMPANY IDENTIFICATION

Product: **EVAMARINE FINISH/REKOMAR FBR 610 WHITE CS-651**  
RECOMMENDED USE: Corrosion Protection.

Code: 6102141

Manufacturer's name: RENNER HERRMANN S.A.  
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## 2 - HAZARD IDENTIFICATION

Chemical product classification: flammable liquid - category 3  
Acute toxicity (oral) - Category 4  
Acute Toxicity - Inhalation - Category 4  
Corrosive / Irritating to skin - Category 2  
Serious eye damage / Eye irritation - Category 2A  
Carcinogenicity - Category 2  
Aspiration hazard - Category 1  
Danger to the aquatic environment - Acute - Category 1  
Systemic toxicity to the target organ after single exposure - Category 1 and 3

Product classified according to ABNT 14725-2.



WORD OF CAUTION: Danger

### FRASES DE PERIGO:

H332 - Harmful if inhaled  
H312 - Harmful in contact with the skin - Hazard category 1B  
H302 - Harmful if ingested.  
H373 - May cause damage to organs through prolonged or repeated exposure  
H319 - Causes serious eye irritation  
H335 - Irritating to respiratory system  
H318 - Causes serious eye damage.  
H400 - Very toxic to aquatic life.  
H300 - Fatal if swallowed.  
H351 - Suspected of causing cancer.  
H226 - Flammable liquids and vapors.

### PRECAUTIONARY PHRASES:

P262 - Do not get in eyes, on skin, or on clothing.  
P280 - Wear eye and face protection.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P501 - This material and its container must be disposed of in a safe way.  
P273 - Do not empty into drains.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P260 - Do not breathe vapours.  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P270 - When using do not eat or drink.  
P210 - Keep away from sources of ignition. No smoking.  
P210 - Keep away from heat.  
P270 - Keep away from food, drink and animal feedingstuffs.  
P102 - Keep out of the reach of children.

### EFFECTS OF OVEREXPOSURE:

#### INGESTION:

Toxicity of a single oral dose is considered low. The accidental ingestion of small quantities related to the handling of the product is not expected to cause any harm. If inhaled (liquid goes into lungs), it may cause damage to the lungs due to chemical pneumonitis, which is caused by petroleum and petroleum-based solvents. It might be dangerous if paint film or dry paint film is chewed or swallowed.

#### EYES:

In case of prolonged exposure, it may cause severe eye irritation, redness, burning sensation, visual disturbances and itching.

#### SKIN:

The prolonged contact with skin may cause allergic reactions, dryness, lesion, and contact dermatitis.

#### INHALATION:

Irritation of respiratory system, besides headache, dizziness and nausea. Continuous exposure to sanding dust may also lead to respiratory

and skin problems.

### 3 - COMPOSITION / INFORMATION ON INGREDIENTS

PRODUCT TYPE: Mix

CHEMICAL NATURE: Solvent-based alkyd paint

Chemical Name	CAS Number	Concentration Range (%)
Mineral turpentine	68477-39-4	7,2 – 17,2
Mixed xylene	1330-20-7	8,0 – 18,0

Hazardous ingredients: CLASSIFICATION SYSTEM:

The ingredients were classified according to Guideline 67/548/EEC.

### 4 - FIRST AID MEASURES

**INHALATION:**

If inhaled, move to fresh air. Aid in breathing (mouth-to-mouth respiration), if necessary, and get medical attention.

**SKIN CONTACT:**

Remove contaminated clothing; wash affected skin with flowing water and soap. If the product adheres to skin and it is difficult to remove it with water, use vaseline, mineral oil or vegetal oil. If symptoms persist. Get medical attention.

**EYE CONTACT:**

Flush eyes with large amounts of water, for at least 15 minutes, maintaining the eyelids open. Get urgent medical attention.

**INGESTION:**

Do not induce vomiting. If the victim is unconscious, and vomiting occurs involuntarily, turn the victim sideways, and see that he/she rests. Get urgent medical attention. If swallowed large quantity of liquid or solid material, it may be necessary to proceed with gastric washing up. Drink water or milk.

**ACTIONS TO BE AVOIDED:**

Skin contact.

**DESCRIPTION OF MAIN SYMPTOMS AND EFFECTS:**

Throat irritation in case of long-term exposure to vapours

**PROTECTION OF FIRST AID APPOINTED PERSON:**

In case of accidents of great proportions, the first aid provider shall have full protective equipment available. Remove contaminated clothing.

**INFORMATION FOR PHYSICIANS:**

Gastric wash up is necessary, especially in children, when large quantities ingestion. Proceed with gastric wash up only after the person has been intubated.

Gastric decontamination is indicated when dry paint is swallowed.

**SYMPTOMATIC TREATMENT:**

If possible, contact a Toxicological Center.

### 5 - FIRE FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA:**

Dry chemical, carbon dioxide or foam. Water spraying may also be used, although not so effective. Besides, water spraying may be used to cool the container.

**UNSUITABLE EXTINGUISHING MEDIA:**

Water jetting.

**SPECIFIC HAZARDS:**

Flammable product. Monoxide and carbon dioxide may be released. These are irritating and poisonous gases. Closed containers may explode when exposed to extreme heat. In case of fire, water spraying may be used to cool the containers. Keep containers closed when not used.

**SPECIAL METHODS:**

Cool containers that are close to the fire with water spraying.

**FIREFIGHTER PROTECTION:**

Wear appropriate individual protective equipment and respirator.

### 6 - ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:**

Putting people safe. Avoid direct contact with the product.

**ENVIRONMENT PRECAUTIONS:**

If large quantity leaks, remove liquid using inert absorbing material, such as sand, vermiculite, etc. Avoid that the product gets in contact with soil, rivers and lakes.

**METHOD FOR CONTAINMENT AND CLEANING:**

Remove contaminated diking material and transfer to an emergency tank. Store product in properly labeled emergency container (labeled) and closed for recycle or disposal.

**DISPOSAL:**

Consult a local expert for advice on the disposal of this material. Ensure that disposal is in compliance with local, national.

**REMOVAL OF IGNITION SOURCES:**

Flammable product. Keep away from any ignition sources (flames, sparks, etc), and turn off any equipment or electrical networks that may be in contact with the product.

**DUST CONTROL:**

Unnecessary as the product is liquid.

**ALARM SYSTEM:**

If waters are contaminated, inform governmental local authorities.

**PREVENTION FOR SECONDARY HAZARDS:**

Containers shall not be reused. They must be disposed of or recycled according to local legislations.

**7 - HANDLING AND STORAGE**

**HANDLING:**

Handle the product only in well-ventilated areas.

**PERSONAL PROTECTION:**

Handle the product only in well-ventilated area, and wear proper personal equipment (see item 8). Do not throw nor let the product container to drop. The container must be kept closed when not in use. After using the product, and before ingesting any type of food, smoking or using toilet, wash hands properly.

**FIRE AND EXPLOSION PREVENTION:**

The product contains volatile organic solvents and fuel. Keep containers well closed, protected from heat sources, and distant from any ignition sources.

**PRECAUTIONS FOR SAFE HANDLING:**

Wear proper personal equipment.

**RECOMMENDATION FOR SAFE HANDLING:**

Avoid contact with skin, mucous and eyes.  
Handle the product only in well-ventilated areas.  
Do not reuse container.  
Do not smoke, eat or drink in the handling area.

**STORAGE**

**TECHNICAL MEASURES:**

Keep containers well closed, protected from intense heat. Do not store near food. Keep children away from the product.

**STORAGE CONDITIONS**

Proper: Sheltered, cool, dry and ventilated areas.  
Conditions to avoid: Avoid storing it where there is strainer or any other form of drainage nearby as it may infiltrate into wastewater drainage and / or sewers.

**INCOMPATIBLE PRODUCTS AND MATERIALS:**

Do not store it near corrosive and/or toxic products, organic peroxides, materials of spontaneous combustion and radioactive materials.

**SAFE MATERIALS FOR PACKAGING:**

Adequate: Metal containers  
Inadequate: Plastic containers

**8 - EXPOSURE CONTROL / PERSONAL PROTECTION**

**SPECIFIC CONTROLS:**

Exposure limits:

Chemical Name	TLV/TWA (mg/m3)	TLV/STEL (ppm)	NR 15 (ppm)
Mineral turpentine	100	NA	NA
Mixed xylene	100	150	78

**ENGINEERING CONTROLS:**

Provide sufficient ventilation, keeping doors and windows opened for air circulation. Closed environments shall be provided with air exhaustion devices. If it is impossible to provide natural or equipment ventilation, wear respirator with filter for organic vapors.

**PERSONAL PROTECTIVE EQUIPMENT:**

**EYE PROTECTION:**

Safety glasses or chemical goggles.

**SKIN AND BODY PROTECTION:**

Wear body protection to avoid contact with product.

**RESPIRATORY PROTECTION:**

Wear respirator with filter for organic vapors, with forced ventilation.

**PROTECTION FOR HANDS:**

Rubber gloves.

**THERMAL HAZARDS:** Not available

**MONITORING RECOMMENDED PROCEDURES:**

Labor Ministry regulation standard n° 15, Fundacentro working neatness standards, procedures NIOSH or ACGIH.

**9 - PHYSICAL - CHEMICAL PROPERTIES**

Product:  
 Appearance: Fluid  
 Color: White  
 Odor: Characteristic  
 pH: Not Available.  
 Melting point: 13,2 ° C (xylene)  
 Boiling point: 143°C (Xylene)  
 Flash Point: 17 °C (Xylene)  
 Evaporation Rate: NA  
 Flammability: Gas  
 Explosion limits (% volume):  
 Lower Limits: 1,0 Vol. % (Xylene)  
 Upper Limits: 7,0 Vol. % (Xylene)  
 Vapor pressure (mmHg at 20°C): Not Available.  
 Vapor density (air = 1): Not Available.  
 Mass solids (% mass): 56,90 – 60,90  
 Specific weight: 1,0500 – 1,1500  
 Solubility: water insoluble, soluble in turpentine and kerosene.  
 Partition Coefficient: NA  
 Auto-ignition temperature: NA  
 Decomposition Temperature: NA  
 Viscosity: NA

**10 - STABILITY AND REACTIVITY**

CHEMICAL STABILITY / REACTIVITY:  
 Stable under normal conditions of storage and use.  
 See instructions on sections 5 and 7 on fire hazards.

POSSIBILITY OF HAZARDOUS REACTIONS:  
 There won't be any dangerous reactions if product is stored, applied and processed correctly.

CONDITIONS TO AVOID:  
 Avoid high temperatures and contact with oxidizing vehicles, heat and ignition sources.

INCOMPATIBLE MATERIALS OR SUBSTANCES:  
 Oxidizing materials, strong acids and strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS:  
 Combustion releases toxic gases such as CO, CO2 and NOx.

**11 - TOXICOLOGICAL INFORMATION**

TOXICITY DATA:

Chemical Name	DL50	CL50	Carcinogenicity	Teratogenicity	Mutagenicity	Toxic Doses
Mineral turpentine	skin, : 3.000 mg/kgInges tion, : 5.000 mg/kg	inhalation , : 5,5 ml/L/4h	NA	NA	NA	-
Mixed xylene	Ingestion, : 3500 mg/kg	NA	NA	NA	NA	-

SKIN IRRITATION  
 Acute: Moderate irritation.  
 Chronic: Contact for long period may cause dermatitis and skin dryness.

EYE IRRITATION  
 Acute: Accidents with splatters may result in serious eye irritation especially for the presence of xylene. Acute exposure to large quantities of sanding dust may irritate eye mucosa.  
 Chronic: There are not any available reports on the toxicity caused by the product.

INHALATION  
 Acute: Headache, nausea, dizziness, sleepiness and, if exposed to high concentrations, pneumonitis.  
 Chronic: Neuropsychiatric alterations reported for xylene. Xylene is also suspected of causing lesion to the auditive nerve.

INGESTION  
 Acute: Nausea, vomit, diarrhea. Risk of pneumonitis resulting from the ingestion of vomit.  
 Chronic: Hepatic damages related to ingestion of xylene.

ASPIRATION HAZARD:  
 Acute: When exposed to aromatic hydrocarbon for long periods, it may cause nausea, irritation of superior respiratory system, headache, vomit, dizziness, sleepiness and dermatitis.  
 Chronic: Possible neurological, renal, hearing damages when exposed for long periods, and lungs damages (cough, dyspnea, worse respiratory function) for inhaling the product vapors.

**12 - ECOLOGICAL INFORMATION**

ECOTOXICIDAD: Harmful to fauna and flora.

PERSISTENCE AND DEGRADABILITY: Product not degradable.

BIOACCUMULATION POTENTIAL: Not potentially Bioaccumulative.

MOBILITY IN SOIL: All actions shall be taken to work according to local environmental regulations.

ENVIRONMENT EFFECTS: Water insoluble. It may have toxic effects on water life. I may affect soil, by percolation, degrading the quality of the freatic level waters.

### 13 - TREATMENT AND DISPOSAL CONSIDERATIONS

#### RECOMMENDED PRACTICES FOR FINAL DESTINATION

PRODUCT: Co-processing, thermal decomposition or industrial earthwork, according to local regulations. Do not dispose of the material in sewerage systems, rivers, lakes and springs.

WASTE MATERIAL: the residue that will not be used anymore shall be disposed of according to local regulations.

USED CONTAINER: it shall not be used again.

### 14 - TRANSPORT INFORMATION

National and International Recommendation:

LAND:  
UN Number: 1263  
Hazard class: 3.0  
Hazard number: 30  
Packaging group: III  
Proper shipping name: PAINT

WATERWAYS:  
IMDG/GGVSEA/UN Number: 1263  
Hazard class: 3.0  
Hazard number: 30  
Packaging group: III  
Proper shipping name: PAINT

AIR TRANSPORT:  
UN Number: 1263  
Hazard class: 3.0  
Hazard number: 30  
Packaging group: III  
Proper shipping name: PAINT

ENVIRONMENTAL HAZARD: In accordance with item 12.

### 15 - REGULATORY INFORMATION

Decree 2657, of 03/07/98, concerning Safety in the Use of Chemicals at Work.  
Labor Ministry act n° 3214 and its regulatory law n° 15 - amendments 11 and 12 (tolerance limits).  
Regulatory law n° 7 - Program of Medical Biological Occupational Health (biological indicators).  
Act n° 420, dated February 12,2004 - National Agency for Road Transportation.  
IMDG (International Maritime Dangerous Goods) Code, 1998 (classification of hazardous products for sea transportation).  
IATA (International Aerial Transport Association - 41 ed. (classification of hazardous products for air transportation).  
Regulatory law n° 26 - Labor Ministry.  
Law n° 8078, dated September 11, 1990. (Consumer Guarantees Act).

### 16 - OTHER INFORMATION

Bibliography:  
ABNT NBR 14725-2  
ABNT NBR 14725-3  
ABNT NBR 14725-4

Abbreviations:  
CAS: Chemical Abstracts Service  
LC50 - Lethal concentration with 50% mortality  
LD50 - Lethal dose with 50% mortality  
LCLo - Lowest lethal concentration.  
LDLo - Lowest letal dose  
NA: Not available  
NA: Not applicable

DEFINITIONS:  
TERATOGENIC PRODUCT: In the case of chronic exposure may cause fetal abnormalities or threatened abortions.  
MUTAGENIC PRODUCT: In the case of chronic exposure, can cause DNA changes.  
PRODUCT CARCINOGENIC: In case of chronic exposure can be carcinogenic.

Note: the information contained herein is based on present experience and knowledge. We accept no responsibility if the information herein are not sufficient nor correct under all circumstances.