

1 - PRODUCT AND COMPANY IDENTIFICATION

Product: DILUENTE P/ REKOMAR
RECOMMENDED USE: Diluent

Code: 4100000

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
Irritating to skin - Category 2
Aspiration hazard - Category 1

The ingredients were classified according to ABNT NBR 14725-2.



WORD OF CAUTION: Danger

DANGEROUS PHRASES:

H226 - Flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways

PRECAUTIONARY PHRASES:

P210 - Keep away from heat, hot surfaces, open flames, sparks. - Do not smoke
P233 - Keep container tightly closed.
P240 - Ground the container and receiver of the product during shipment
P241 - Use electrical equipment, lighting, explosion-proof ventilation
P242 - Only use anti-sparking tools
P243 - Avoid the accumulation of electrostatic charges
P280 - Wear eye protection, protective clothing, protective gloves
P301 + P310 - IF SWALLOWED: Immediately contact a POISON CENTER TOXICOLOGICAL INFORMATION or a doctor
P303 + P361 + P353 - IF ON SKIN (or with hair): Remove Take off all contaminated clothing immediately. Rinse skin with water / shower
P331 - Do NOT induce vomiting
P370 + P378 - In case of fire: For extinction use carbon dioxide (CO₂), carbon dioxide dry extinguisher, foam
P403 + P235 - Store in a well-ventilated place. Keep in a cool place
P405 - Store locked
P501 - Dispose of contents / container to a hazardous waste collection point or special requirements in accordance with local, regional or international regulations

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. Several hazards to human health.

EYES: In case of prolonged exposure, vapors may irritate eyes. Temporary minor cornea damage.

SKIN:
Dryness, lesion, irritation, and contact dermatitis.

INHALATION:
Irritation of respiratory system, besides headache, dizziness and nausea.

3 - COMPOSITION / INFORMATION ON INGREDIENTS

PRODUCT TYPE: Mix
CHEMICAL NATURE: Solvents and thinners Hazardous
Ingredients:

Chemical Name	CAS Number	Concentration Range (%)
Mineral turpentine	64742-82-1	89,0 - 98,0

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 of the product are swallowed, or when there is an association of solvent with other toxic product, such as heavy metals. 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:

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.

INHALATION, CONTACT WITH SKIN, EYES AND MUCOUS PREVENTION:

Ventilate the area and avoid contact with skin, eyes and mucous.

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.

ALARM SYSTEM:

If waters are contaminated, inform governmental local authorities.

METHOD FOR CONTAINMENT AND CLEANING:

DISPOSAL:

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

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:

TECHNICAL MEASURES:

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	78	NA	NA

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:

RESPIRATORY PROTECTION:

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

PROTECTION FOR HANDS:

Rubber gloves.

EYE PROTECTION:

Safety glasses or chemical goggles.

SKIN AND BODY PROTECTION:

Wear body protection to avoid contact with product.

THERMAL HAZARDS: Not available

MONITORING RECOMMENDED PROCEDURES:

Labor Ministry regulation standard nº 15, Fundacentro working neatness standards, procedures NIOSH or ACGIH.

9 - PHYSICAL - CHEMICAL PROPERTIES

Product:

Appearance: Fluid

Color: NA

Odor: Characteristic

pH: Not Available.

Specific weight: 0,7300 – 0,8300

Sólidos en peso (% peso): NA

Solubility: Water insoluble.

Specific temperatures or ranges in which physical changes occur:

Boiling point: NA

Explosion limits (% volume):

Lower Limits: NA

Upper Limits: NA

Vapor pressure (mmHg at 20°C): Not Available.

Vapor density (air = 1): Not Available.

Evaporation rate (butylacetate=1): 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.

HAZARDOUS DECOMPOSITION PRODUCTS:

Combustion releases toxic gases such as CO, CO2 and NOx.

11 - TOXICOLOGICAL INFORMATION

TOXICITY

Chemical Name	DL50	CL50	Carcinogenicity	Teratogenicity	Mutagenicity	Toxic Doses
Mineral turpentine	NA	Rat ingestion: 2600 mg/kg	-	-	-	-

SKIN IRRITATION

Acute: Moderate irritation.

Chronic: Prolonged skin contact may cause dermatitis and dry skin.

EYE IRRITATION

Acute: Accidental splashing may result in severe eye irritation, also acute exposure to large amounts of dust from sanding may irritate the ocular mucosa.

Chronic: There are no reports available on the toxicity caused by the product.

RESPIRATORY SENSITIZATION

Acute: headache, nausea, dizziness, drowsiness, exposure to high concentrations and pneumonitis.

Chronic: There are no reports available on the toxicity caused by the product.

INGESTION

Acute: Nausea, vomiting, diarrhea. Aspiration of vomit may cause pneumonitis.

Chronic: There are no reports available on the toxicity caused by the product.

SUCTION HAZARD:

Acute: Long-term exposure to hydrocarbons may cause nausea, upper respiratory irritation, headache, vomiting, dizziness, drowsiness, and dermatitis.

Chronic: Possibility of neurological, renal, auditory damage due to long-term exposure, possibility of lung damage (cough, dyspnoea, aggravation of respiratory function) by inhalation of product vapors.

12 - ECOLOGICAL INFORMATION

Data on water toxicity are not available. As the majority of hydrocarbon, it transmits undesirable qualities to water. It may have toxic effects on water life. I may affect soil, by percolation, degrading the quality of the freatic level waters.

ENVIRONMENT EFFECTS:

Water insoluble.

PERSISTENCE AND DEGRADABILITY:

It is not completely degradable.

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

15 - REGULATORY INFORMATION

Portaria n. 3214 of the Ministry of Labor and its Norma Regulamentadora n. 15 Annexes 11 and 12 (tolerance limits).
Norma Regulamentadora NR 7 - Biological Occupational Health Medical Control Program (biological indicators).
Resolution n. 5232, dated 12.14.2016, of the National Land Transport Agency.
IMDG (International Maritime Dangerous Goods Code), 1998 (Classification of Hazardous Products for Maritime Transport).
Dangerous Goods Regulations of the International Aerial Transport Association, 41 ed. (classification of dangerous products for air transport).
Norma Regulamentadora n. 26, of the Ministry of Labor.
Law no. 8078, of 09/09/1990 (Code of Defense of the Consumer). Directive 67/548 / EEC.

16 - OTHER INFORMATION

Bibliographic references:

ABNT NBR 14725-2
ABNT NBR 14725-3
ABNT NBR 14725-4
NR-26

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 applicable
NA: Not available

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. Customers and users of this product shall consider these data as additional information on the ones they already have, to assure the product correct use and correct disposal of the material; safety and health of employees and customers, and environmental protection. The present MSDS refers exclusively to the described product, and it is not extensive to any other material or process. It is subject to change due to our policy of modification and product development. The information contained herein MSDS is based on documents issued by suppliers of the raw materials used in the preparation.