

In accordance with Globally Harmonized System of Classification and Labelling of Chemicals (GHS)- Chapter 1.5 and Annex 4

## SAFETY DATA SHEET

**Product:** VERNIZ PU CARBON HS 2:1

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### 1 - IDENTIFICATION

GHS Product identifier:	VERNIZ PU CARBON HS 2:1
Other means of identification:	035403-00
Recommended use of the chemical:	Used for automotive refinishing.
Specific restrictions on use:	There are not known restrictions on use.
Supplier`s details:	ANJO QUIMICA DO BRASIL LTDA <b>Address:</b> Acesso Estadual Rio Maina, nº 1165, Bairro Vila Macarini. CEP: 88818-800 - Brasil. <b>Phone number:</b> (48) 34618000 (48) 34618049 <b>Email:</b> sac@anjo.com.br
Emergency phone number:	CIATox/SC (Centro de Informação e Assistência Toxicológica de Santa Catarina) 08006435252

### 2 - HAZARD IDENTIFICATION

Classification of the substance or mixture:	Skin Corrosion/Irritation - Category 2; Serious eye damage/eye irritation - Category 2A; Reproductive Toxicity - Category 1B; Specific Target Organ Toxicity – Single Exposure - Category 3 - Narcotic; Specific Target Organ Toxicity – Repeated Exposure - Category 2; Hazardous to the Aquatic Environment - Acute Hazard - Category 2.
Classification system adopted:	Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations.

#### GHS label elements, including precautionary statements

Pictograms:



Signal word: WARNING

Hazard statement(s): H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H360 May damage fertility or the unborn child.  
H373 May cause drowsiness or dizziness e may cause damage to organs through prolonged or repeated exposure.  
H401 Toxic to aquatic life.

Precautionary statement(s): **PREVENTION:**  
P203 Obtain, read and follow all safety instructions before use.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P264 + P265 Wash hands thoroughly after handling. Do not touch eyes.

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P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.

### RESPONSE TO EMERGENCY:

P302 + P352 IF ON SKIN: Wash with plenty of water.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P318 IF exposed or concerned, get medical advice.  
P319 Get medical help if you feel unwell.  
P321 Specific treatment.  
P332 + P317 If skin irritation occurs: Get medical help.  
P337 + P317 If eye irritation persists: Get medical help.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

### STORAGE:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

### DISPOSITION:

P501 Dispose of contents and container in accordance with local regulations.

Other hazards which do not result in classification: The product has no other hazards.

## 3 - COMPOSITION/INFORMATION ON INGREDIENTS

### MIXTURE

Components contributing to the hazard:	Xylene (CAS 1330-20-7): 18.28 - 54.82 %; Butyl acetate (CAS 123-86-4): 6.44 - 19.30 %; Ethylglycol acetate (CAS 111-15-9): 1.75 - 5.25 %; Bis(1.2.2.6.6-pentamethyl-4-piperidyl)sebacate (CAS 41556-26-7): 0.08 - 0.22 %; Di-n-butyltin dilaurate (CAS 77-58-7): 0.01 - 0.04 %.
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## 4 - FIRST-AID MEASURES

### Description of necessary first-aid measures

Inhalation:	Remove victim to fresh air and keep in a position that does not obstruct breathing. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.
Skin:	Wash exposed skin with sufficient amount of water to remove the product. Remove and isolate contaminated clothing and shoes. In case of skin irritation: Consult a doctor. Bring this document.
Eye:	Rinse carefully with water for several minutes. If wearing contact lenses, remove them if it is easy and keep rinsing. If eye irritation persists: consult a doctor. Bring this document.

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**Ingestion:** Wash the victim's mouth with plenty of water. Never give anything by mouth to an unconscious person. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.

**Most important symptoms/effects, acute and delayed:** Causes skin irritation with redness, pain and dryness. Causes serious eye irritation with redness and pain. May cause drowsiness or dizziness, may cause dizziness and nausea. May cause damage to the kidneys through prolonged or repeated exposure.

**Indication of immediate medical attention and special treatment needed, if necessary:** Avoid contact with the product when helping the victim. If necessary, symptomatic treatment should include, above all, supportive measures such as correction of hydro electrolytic and metabolic disorders and respiratory assistance. In case of skin contact, do not rub the affected area.

### 5 - FIRE-FIGHTING MEASURES

**Extinguishing media:** Appropriate: carbon dioxide (CO<sub>2</sub>), foam, water mist and powder.  
Inappropriate: water jet directly.

**Specific hazards arising from the chemical:** Combustion of the material or its packaging can form irritating and toxic gases such as carbon monoxide and dioxide.  
Vapors can be denser than air and tend to accumulate in low-lying or confined areas such as storm drains and basements. Containers may explode if heated.

**Special protective actions for fire-fighters:** Wear positive pressure self-contained breathing apparatus (SCBA) and full protective clothing. Containers and tanks involved in the fire must be cooled with water mist.

### 6 - ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel:** Isolate the leakage from sources of ignition. Keep unauthorized persons away from the area. Stop the leakage if it can be done without risk. Do not smoke. Do not touch damaged containers or spilled product without proper clothing. Avoid exposure to the product. Stay in a safe place, with the wind at your back. Use personal protective equipment as described in section 8.

**For emergency responders:** Wear complete PPE with safety glasses, safety gloves, suitable protective clothing and closed shoes. In case of leakage, where exposure is high, it is recommended to use a suitable respiratory protection mask.

**Environmental precautions:** Avoid that the spilled product reaches waterways or sewage system.

**Methods and materials for containment and cleaning up:** Use water mist or vapor suppressing foam to reduce the dispersion of vapors. Use natural or spill containment barriers. Collect spilled products and place them in appropriate containers. Adsorb the remaining product with dry sand, earth, vermiculite, or any inert product. Place the adsorbed product in proper containers and remove it to a safe place. For final disposal, proceed according to Section 13 of this document.

### 7 - HANDLING AND STORAGE

#### Precautions for safe handling

**Precautions for safe handling:** Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoid vapors and mists formation. Avoid exposure to the product, since the effects may

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not be felt immediately. Use personal protective equipment as described in section 8. Avoid contact with incompatible materials.

**General hygiene:** Wash hands and face thoroughly after handling and before eating, drinking, smoking, or using the toilet. Contaminated clothing should be changed and washed before reuse. Remove contaminated clothing and protective equipment before entering eating areas.

### Conditions for safe storage, including any incompatibilities

**Technical measures for prevention of fire and explosion:** It is not expected that the product presents a fire or explosion hazard.

**Conditions for safe storage, including any incompatibilities:** Store in a dry, well-ventilated place away from sunlight. Keep the container closed. It is not necessary addition of stabilizers and antioxidants to ensure the durability. This material may react dangerously with some incompatible materials as outlined in Section 10. Keep away from incompatible materials.

**Packaging compatibilities:** Similar to the original packaging.

**Inadequate packaging materials:** There are not known unsuitable material.

## 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Occupational exposure limit:** The values below apply to workplaces.

- Xylene:

OSHA - PEL - TWA: 100 ppm (435 mg/m<sup>3</sup>) (29 CFR 1910.1000 Table Z-1) (CFR);

NIOSH - REL - TWA: 100 ppm (435 mg/m<sup>3</sup>);

NIOSH - REL - STEL: 150 ppm (655 mg/m<sup>3</sup>);

ACGIH - TLV - TWA: 20 ppm.

- Butyl acetate:

OSHA - PEL - TWA: 150 ppm (710 mg/m<sup>3</sup>) (29 CFR 1910.1000 Table Z-1) (CFR);

NIOSH - REL - TWA: 150 ppm (710 mg/m<sup>3</sup>);

NIOSH - REL - STEL: 200 ppm (950 mg/m<sup>3</sup>);

ACGIH - TLV - TWA: 50 ppm;

ACGIH - TLV - STEL: 150 ppm.

- Ethylglycol acetate:

OSHA - PEL - TWA: 100 ppm (540 mg/m<sup>3</sup>) (\*) (29 CFR 1910.1000 Table Z-1) (CFR);

NIOSH - REL - TWA: 0.5 ppm (2.7 mg/m<sup>3</sup>) (\*);

ACGIH - TLV - TWA: 5 ppm (\*).

- Ethylbenzene:

OSHA - PEL - TWA: 100 ppm (435 mg/m<sup>3</sup>) (29 CFR 1910.1000 Table Z-1) (CFR);

NIOSH - REL - TWA: 100 ppm (435 mg/m<sup>3</sup>);

NIOSH - REL - STEL: 125 ppm (545 mg/m<sup>3</sup>);

ACGIH - TLV - TWA: 20 ppm.

CFR: See mentioned item in OSHA CFR;

\*: Also absorbed through the skin.

**Biological limit:**

- Xylene:

ACGIH - BEI: Determinant: Methylhippuric acids in urine. Sampling Time: End of shift.

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Index: 1.5 g/g creatinine.

- Ethylglycol acetate:

ACGIH - BEI: Determinant: 2-Ethoxyacetic acid in urine. Sampling Time: End of shift at end of workweek. Index: 100 mg/g creatinine.

- Ethylbenzene:

ACGIH - BEI: Determinant: Sum of mandelic acid and phenylglyoxylic acid in urine. Sampling Time: End of shift. Index: 0.15 g/g creatinine. Notation: Ns.

Ns: The determinant is nonspecific, since it is also observed after exposure to other chemicals.

Other limits and values:

Not established.

Appropriate engineering controls:

A risk assessment is recommended to define the engineering control measures necessary to eliminate or minimize the risk. These measures help to reduce exposure to the product. Maintain atmospheric concentrations of the constituents of the material below occupational exposure limits indicated.

### Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection: Safety glasses.

Skin protection: Closed shoes and suitable protective clothing. Appropriate protective gloves.

Respiratory protection: A risk assessment should be performed for proper definition of respiratory protection, in view of the material use conditions.

Thermal hazards: It does not present thermal hazards.

### 9 - PHYSICAL AND CHEMICAL PROPERTIES

Aspect: Liquid, semi-viscous.

Color: Transparent.

Odour: Characteristic (odor threshold: not available).

Melting point/freezing point: Not available.

Boiling point or initial boiling point and boiling range:  $\cong$  112 °C (233.6 °F).

Flammability: Not available.

Lower and upper explosion limit/flammability limit: Upper: 13 % and Lower: 0.7 %.

Flash point:  $\cong$  30 °C (86 °F) - Closed cup.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

pH: Not applicable.

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Kinematic viscosity:	Not available.
Solubility(ies):	Immiscible in water.
Partition coefficient n-octanol/water (log value):	Not available.
Vapour pressure:	≅ 1.3 kPa.
Relative vapour density:	Not available.
Density and/or relative density:	Absolute density: ≅ 0.98 g/cm <sup>3</sup> . Relative density: 0.93 to 0.98.
Particle characteristics:	Not applicable.
Other information:	Not applicable.

### 10 - STABILITY AND REACTIVITY

Reactivity:	Reactivity is not to be expected under normal conditions of temperature and pressure.
Chemical stability:	Stable under normal temperature and pressure conditions.
Possibility of hazardous reactions:	Xylene: Risk of explosion when in contact with nitric acid and uranium hexafluoride. May react dangerously with oxidizing agents and sulfuric acid. Butyl acetate: Contact with nitrates, strong oxidizing agents, strong bases and strong acids can cause fire and explosion. Ignition occurs when butyl acetate is reacted with potassium t-butoxide.
Conditions to avoid:	High temperatures. Contact with incompatible materials.
Incompatible material:	Acetaldehyde, acetanilide, acetonitrile, hydrochloric acid, metallic acetylenes, nitrates, nitric acid, oxidizing agents, oxygen, Strong acids, strong base, strong oxidizing agents, sulphuric acid and vinyl acetate.
Hazardous decomposition products:	No dangerous decomposition products are known.

### 11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	It is not expected to be acutely toxic.
Skin corrosion/irritation:	Causes skin irritation with redness, pain and dryness.
Serious eye damage/irritation:	Causes serious eye irritation with redness and pain.
Respiratory or skin sensitization:	It is not expected to present respiratory or skin sensitization.  The ingredients Di-n-butyltin dilaurate and Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate, classified as skin sensitizers - category 1, are in concentrations < 1% and do not contribute to this classification of the product.
Germ cell mutagenicity:	It is not expected to show mutagenicity in germ cells.
Carcinogenicity:	It is not expected to be carcinogenic.

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Reproductive toxicity:	May damage fertility or the unborn child.
STOT - Single exposure:	May cause drowsiness or dizziness, may cause dizziness and nausea. Information regarding to: - <u>Xylene</u> : At high concentrations may cause hypotension, tachycardia, vasodilation, dizziness, incoordination, headache, confusion, stupor and coma.
STOT - Repeated exposure:	May cause damage to the kidneys through prolonged or repeated exposure.  The ingredient Ethylglycol acetate, classified as specific target organ toxicant - repeated exposure - category 2, is in concentration < 10% and does not contribute to this classification of the product.
Aspiration hazard:	It is not expected to present an aspiration hazard.

### 12 - ECOLOGICAL INFORMATION

Toxicity:	Toxic to aquatic life.  Information regarding to: - <u>Xylene</u> : NOEC ( <i>Oncorhynchus mykiss</i> , 56 d): > 1 mg/L; NOEC ( <i>Ceriodaphnia dubia</i> , 7 d): > 1 mg/L; LC <sub>50</sub> ( <i>Lepomis macrochirus</i> , 96 h): 19 mg/L; EC <sub>50</sub> (Crustacea, 48 h): 8.5 mg/L. - <u>Butyl acetate</u> : LC <sub>50</sub> ( <i>Danio rerio</i> , 96 h): 62 mg/L. - <u>Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate</u> : LC <sub>50</sub> ( <i>Lepomis macrochirus</i> , 96 h): 0.97 mg/L.
Persistence and degradability:	It is not expected to present persistence and degradability.
Bioaccumulative potential:	It is not expected to have a high bioaccumulative potential.
Mobility in soil:	Not determined.
Other adverse effects:	No other environmental effects known.

### 13 - DISPOSAL CONSIDERATIONS

#### Disposal methods

Must be disposed of as waste in compliance with local regulations. The treatment and disposal should be evaluated for each specific product.  
Keep the product remains in its original and properly closed containers. Disposal should be performed as established for the product.

### 14 - TRANSPORT INFORMATION

<b>Road:</b>	UN - United Nations: Model Regulations: • Recommendations on the Transport of Dangerous Goods.
UN number:	1263

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Proper shipping name:	PAINT RELATED MATERIAL
Primary risk class or division:	3
Subsidiary risk class or division:	NA
Packing group:	III
<b>Railway regulations:</b>	COTIF - Convention concerning International Carriage by Rail: <ul style="list-style-type: none"> <li>Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.</li> </ul>
UN number:	1263
Proper shipping name:	PAINT RELATED MATERIAL
Primary risk class or division:	3
Subsidiary risk class or division:	NA
Packing group:	III
<b>Sea:</b>	IMO - International Maritime Organization: <ul style="list-style-type: none"> <li>IMDG Code - International Maritime Dangerous Goods Code.</li> </ul>
UN number:	1263
Proper shipping name:	PAINT RELATED MATERIAL
Primary risk class or division:	3
Subsidiary risk class or division:	NA
Packing group:	III
EmS:	F-E, <u>S</u> -E
Environmental hazards:	It's not considered a marine pollutant for transportation.
<b>Air:</b>	IATA - International Air Transport Association: <ul style="list-style-type: none"> <li>DGR - Dangerous Goods Regulation.</li> </ul>
UN number:	1263
Proper shipping name:	PAINT RELATED MATERIAL
Primary risk class or division:	3
Subsidiary risk class or division:	NA
Packing group:	III
Special precautions for user:	Not applicable.

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### 15 - REGULATORY INFORMATION

Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990.

### 16 - OTHER INFORMATION

This document was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other products, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

#### Change control:

Version	Manufacture date	Changes
06	07/12/2022	Change in composition. Change in section: 2, 3, 4, 5, 6, 7, 8, 9, 10, 13 and 16.

#### Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;  
 BEI - Biological Exposure Index;  
 CAS - Chemical Abstracts Service;  
 EC - European Community;  
 EC<sub>50</sub> - Effective concentration of substance that causes 50 % of the maximum response;  
 EEC - European Economic Community;  
 LC<sub>50</sub> - Lethal Concentration 50%;  
 NIOSH - National Institute for Occupational Safety and Health;  
 NOEC - No Observed Effect Concentration;  
 OSHA - Occupational Safety & Health Administration;  
 PEL - Permissible Exposure Limit;  
 REL - Recommended Exposure Limit;  
 STEL - Short Term Exposure Limit;  
 TLV - Threshold Limit Value;  
 TWA - Time Weighted Average;  
 UN - United Nations.

#### Bibliographic references:

ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on the Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Cincinnati-USA, 2023.

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 10th rev. ed. New York and Geneva: United Nations, 2023.

REACH - REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS. Commission Regulation (EC) No 1272/2008 of December 2008 amending and repealing Directives 67/548/EEC and

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1999/45/EC, and amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals. Available at: < <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF> >. Access in: Jul. 2022.