

**1- IDENTIFICATION**

GHS Product identifier: **Polyvinyl Chloride - Types of Resins: S58, S63, S65, S66, S71, E67, E68, E70, E74, E76**

Main recommended uses for the substance or mixture: Manufacture of articles from plastic materials.

Specific restrictions on use: There are not known restrictions on use of the product.

Supplier's details: **Unipar Carbocloro S/A**

Address:

Sales office:

**São Paulo:**

Address: Avenida Presidente Juscelino Kubitschek, 1.327 - 22nd floor  
São Paulo/SP - Brasil – CEP: 04543-011

**Buenos Aires:**

Address: Av. Juana Manso 555 7° D (Puerto Madero - CABA) -  
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Factories:

**Santo André Unit:**

Unipar Indupa do Brasil S.A. Address: Estrada de Ferro Santos Jundiai  
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**Bahía Blanca Unit:**

Unipar Indupa SAIC

Address: Av. Pte. Frondizi 2450 - Puerto Galván – B8101XAD - Bahía  
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**2 - HAZARD IDENTIFICATION**Classification of the  
substance or mixture:

Product not classified as hazardous by the Classification System used.

Classification system  
adopted:Globally Harmonized System of Classification and Labeling of  
Chemicals (GHS), United Nations.Other hazards that do not  
result in a classification:

Dusts can form explosive mixtures with air.

**GHS label elements, including precautionary statements**

Caution Recommendations:

Wash your hands after handling the product.

During handling of the product do not drink, eat or smoke.

It is recommended the use of appropriate PPE when handling the  
product.

Get product information before handling.

Store product in a suitable place.

In case of emergency, proceed as directed by the SDS.



### 3 - COMPOSITION AND INFORMATION ON THE INGREDIENTS

#### SUBSTANCE

Common chemical name: Chloroethene homopolymer.

Common name(s), synonym(s)  
of the substance: Polyvinyl chloride; PVC.

CAS: 9002-86-2

Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance: Does not contain components that contribute to the hazard.

### 4- FIRST-AID MEASURES

Inhalation: Remove victim to fresh air.

Skin: Wash exposed skin with sufficient amount of water to remove the material.

Eye: Wash carefully with water for several minutes. In case of use of contact lenses, remove them, if possible. Keep washing. If eyes irritation continues: Contact a doctor. Bring this SDS.

Ingestion: Do not induce vomiting. Wash the exposed persons mouth with wate. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS.

Most important symptoms and effects, acute and delayed: Direct contact with the product may cause slight eye irritation due to mechanical effects with tearing and redness. Direct contact with the product may cause slight respiratory irritation with coughing and sneezing, due to mechanical effects.

Indication of immediate medical attention and special treatment needed, if necessary: If necessary, provide symptomatic treatment.

### 5- FIRE FIGHTING MEASURES

Extinguishing media: Appropriate: carbon dioxide (CO<sub>2</sub>), foam, water mist and powder.  
Not recommended: water jet directly.



Specific hazards arising from the chemical:	Combustion of the chemical or its packaging can form irritating and toxic gases such as carbon monoxide, carbon dioxide and gaseous hydrochloric acid (HCl). Vapors can be denser than air and tend to collect in low or confined areas such as sewers and basements. Containers can explode if heated.
Special protective actions for fire-fighters:	Use self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing. Containers and tanks involved in the fire should be cooled with water mist.

## 6- ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Do not smoke. Avoid exposure to the product. 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 material reaches waterways or sewage system.
Methods and materials for containment and cleaning:	Collect the product with a clean shovel or other instrument that does not disperse the product. Put the material into appropriate containers and remove them to a safe place. For final destination, proceed pursuant to Section 13 of this SDS.

## 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 dust formation. Avoid exposure to the chemical, since the effects may not be felt immediately.
General hygiene:	Wash hands and face thoroughly after handling and before eating, drinking, smoking or going to the bathroom. Contaminated clothing should be changed and washed before reuse. Remove clothing and protective equipment contaminated before entering eating areas.

### Conditions for safe storage, including any incompatibilities

Technical measures for prevention of fire and explosion:	Avoid excessive dust, sparks, open flames, welding operations and the accumulation of electrostatic charges in a dry product area if there is a high concentration of product dust, due to the danger of explosion.
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Conditions for safe storage, including any incompatibilities:

Store in a dry, well-ventilated place away from direct sunlight. Keep the container closed. Make sure the equipment is electrically grounded before starting transfer activities. Store at a temperature not exceeding 40 °C.

Suitable packaging materials: Similar to the original packaging.

Unsuitable packaging materials:

There are not known unsuitable material of the product.

## 8- EXPOSURE CONTROL AND PERSONAL PROTECTION

### Control parameters

The values below apply to workplaces.

Occupational exposure limits: ACGIH - TLV - TWA: 1 mg/m<sup>3</sup> (R).

R: Respirable particulate matter

Biological limit:

Not established.

Other limits and values:

Not established.

Engineering control measures:

Promote mechanical ventilation and exhaust system to outside. These acts help reducing the exposition to the product. Maintain atmospheric concentrations of the constituents of the product below occupational exposure limits indicated.

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

Eye/face protection:

Safety glasses with protection against flying solid particles.

Skin and body protection:

Closed shoes and suitable protective clothing. Appropriate protective gloves.

Respiratory protection:

Half face mask with a P2 particulate filter or PFF2 filtering face mask or better. In case of decomposition, face mask with combined type B-P2 cartridge.

Thermal hazards:

It does not present thermal hazards.

## 9- PHYSICAL AND CHEMICAL PROPERTIES

Aspect:

Solid, in powder

Color:

White.

Odor and odor limit:

Odorless.

pH:

Not available.



Melting point/freezing point:	Not available.
Initial boiling point and boiling temperature range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability (solid; gas):	Not available.
Lower/upper limit of flammability or explosiveness :	Not available.
Vapour pressure:	Not available.
Relative vapour density:	Not available.
Density and/or relative density:	1.38.
Solubility(ies):	Insoluble in water. Soluble in tetrahydrofurate and ketone.
Partition coefficient – n-octanol /water:	Not available.
Auto-ignition temperature:	450 °C (842 °F) - Layered. 650 °C (1202 °F) - Turbid.
Decomposition temperature:	≥ 120 °C (248 °F) Long-term exposure (approximately 3 hours). > 250 °C (482 °F) Brief exposure.
Kinematic viscosity:	Not available
Particle characteristics:	Not applicable
Other information:	Bulk density: 300 to 650 kg/m <sup>3</sup> . Minimum ignition energy > 2.5 J St1.

## 10- STABILITY AND REACTIVITY

Reactivity:	Reactivity is not to be expected under normal conditions of temperature and pressure.
Chemical stability:	Stable product under normal conditions of temperature and pressure.
Possibility of hazardous reactions:	There are not known hazardous reactions with the product.
Conditions to avoid:	Elevated temperatures. Moisture. Heat. Direct sunlight
Incompatible materials:	There are not known incompatible materials with the product.



Hazardous decomposition products: Product decomposition can generate gaseous hydrochloric acid (HCl) and carbon monoxide.

## 11- TOXICOLOGICAL INFORMATION

Acute toxicity :	It is not expected that the product presents acute toxicity.
Skin corrosion/irritation:	It is not expected that the product causes skin irritation.
Serious eye damage/irritation:	Direct contact with the product may cause slight eye irritation due to mechanical effects with tearing and redness.
Respiratory or skin sensitization:	It is not expected that the product presents respiratory or skin sensitization.
Germ cell mutagenicity :	It is not expected that the product presents germ cell mutagenicity.
Carcinogenicity :	Not classified for Carcinogenicity. Not classified as carcinogenic to humans (Group 3 – IARC).
Reproductive toxicity:	It is not expected that the product presents reproductive toxicity.
Specific target organ toxicity - single exposure:	Direct contact with the product may cause slight respiratory irritation with coughing and sneezing, due to mechanical effects.
Specific target organ toxicity - repeated exposure:	It is not expected that the product presents specific target organ toxicity by repeated exposure.
Aspiration hazard:	It is not expected that the product presents aspiration hazard.

## 12- ECOLOGICAL INFORMATION

Toxicity:	It is not expected that the product presents ecotoxicity.
Persistence and degradability :	The product presents persistence and it is not considered readily biodegradable.
Bioaccumulative potential :	Due to the lack of data, bioaccumulative potential in aquatic organisms is not expected.
Mobility in soil:	Not determined.
Other adverse effects:	There are not known other environmental effects for this product.

## 13- DISPOSAL CONSIDERATIONS

### Disposal methods

Must be disposed of as hazardous 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: <ul style="list-style-type: none"><li>• Recommendations on the Transport of Dangerous Goods.</li></ul>
<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>
<b>Sea:</b>	IMO - International Maritime Organization: <ul style="list-style-type: none"><li>• IMDG Code - International Maritime Dangerous Goods Code.</li></ul>
<b>Air:</b>	IATA - International Air Transport Association: <ul style="list-style-type: none"><li>• DGR - Dangerous Goods Regulation.</li></ul>
UN number:	Not classified as hazardous to transport in different modals.
Special precautions for user:	Not applicable.

#### 15- REGULATORY INFORMATION

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

#### 16- OTHER INFORMATION

##### Important information, but not specifically described in the previous sections:

This SDS 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 materials, 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.

Elaborated by INTERTOX LTDA – EPP.

##### Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;

CAS - Chemical Abstracts Service;

EC - European Community;





EEC - European Economic Community;  
IARC - International Agency for Research on Cancer;  
NIOSH - National Institute for Occupational Safety and Health;  
TLV - Threshold Limit Value;  
TWA - Time Weighted Average;  
UN - United Nations.

**Bibliographic references:**

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 8th rev. ed. New York: United Nations, 2019.

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, 2020.

ECHA - EUROPEAN CHEMICAL AGENCY. Available at: < <http://echa.europa.eu/web/guest> >. Access in: Aug. 2022.

GESTIS - SUBSTANCE DATABASE. Available at: < [http://gestisen.itrust.de/nxt/gateway.dll/gestis\\_en/000000.xml?f=templates\\$fn=default.htm\\$3.0](http://gestisen.itrust.de/nxt/gateway.dll/gestis_en/000000.xml?f=templates$fn=default.htm$3.0) >. Access in: Aug. 2022.

HSDB - HAZARDOUS SUBSTANCES DATA BANK. Available at: <http://pubchem.ncbi.nlm.nih.gov/>. Access in: Aug. 2022.

IARC - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER. Available at: <http://monographs.iarc.fr/ENG/Classification/index.php>. Access in: Aug. 2022.

IPCS - INTERNATIONAL PROGRAMME ON CHEMICAL SAFETY - INCHEM. Available at: <http://www.inchem.org/>. Access in: Aug. 2022.

IUCLID - INTERNATIONAL UNIFORM CHEMICAL INFORMATION DATABASE. [S.1.]: European chemical Bureau. Available at: <http://ecb.jrc.ec.europa.eu>. Access in: Aug. 2022.

NIOSH - NATIONAL INSTITUTE OF OCCUPATIONAL AND SAFETY. International Chemical Safety Cards. Available at: <http://www.cdc.gov/niosh/>. Access in: Aug. 2022.

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 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://eurlex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF> >. Access in: Aug. 2022.

TOXNET - TOXICOLOGY DATA NETWORKING. ChemIDplus Lite. Available at: <http://chem.sis.nlm.nih.gov/>. Access in: Aug. 2022.