

Safety Data Sheet
 According to 1907/2006/EC, amended by Regulation (EU) N°
 2015/830

Printing date 05.09.2016

Version number 1000

Revision: 05.09.2016

1 Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Vipafix Cement
- **Internal identification code:** 472001, 472003, 472004
- **Main recommended uses for the substance or product:**
 For further information consult the technical data sheet.
 Adhesive for splicing conveyor belts and adhesion of materials such as rubber, wood and fabrics by cold method.
- **Uses advised against** This product must not be used for applications other than those recommended in this section
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Borrachas Vipal S/A
 Rua Buarque de Macedo 365
 Nova Prata - RS
 95320-000
- **E-mail:** vipal@vipal.com.br
- **1.4 Emergency telephone number:** +55 54 3242 1666

2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Muta. 2	H341 Suspected of causing genetic defects.
Carc. 1B	H350 May cause cancer.
STOT SE 3	H336 May cause drowsiness or dizziness.
STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
 The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07 GHS08

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**
 trichloroethylene
- **Hazard statements**
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H341 Suspected of causing genetic defects.
 H350 May cause cancer.
 H336 May cause drowsiness or dizziness.
 H373 May cause damage to organs through prolonged or repeated exposure.

(Contd. on page 2)

Safety Data Sheet
 According to 1907/2006/EC, amended by Regulation (EU) N°
 2015/830

Printing date 05.09.2016

Version number 1000

Revision: 05.09.2016

Trade name: Vipafix Cement

(Contd. of page 1)

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P202 Do not handle until all safety precautions have been read and understood.

 P305+P351+P338 **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

 P302+P352 **IF ON SKIN:** Wash with plenty of water.

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
Results of PBT and vPvB assessment

 • **PBT:** Not applicable.

 • **vPvB:** Not applicable.

3 Composition/information on ingredients

 • **Chemical characterisation:** Mixture

 • **Description:** Trichlorethylene-based adhesive and additives.

Dangerous components:

CAS: 79-01-6 EINECS: 201-167-4	trichloroethylene	Muta. 2, H341; Carc. 1B, H350 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H336 Aquatic Chronic 3, H412	70-100%
CAS: 1314-13-2 EINECS: 215-222-5	zinc oxide	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<1%

SVHC

79-01-6	trichloroethylene
---------	-------------------

 • **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

Protection of the First Aid Provider:

Long trousers, long or short sleeved shirt or t-shirt, apron and/or waterproof overalls, nitrile gloves, closed shoes, safety goggles for chemical products and helmet.

4.1 Description of first aid measures
After inhalation:

If case of indisposition, contact the TOXICOLOGY INFORMATION CENTER or a doctor. Bring this MSDS.

Remove the victim to fresh air. If the victim is breathing with difficult, give oxygen. if necessary administer artificial respiration. Seek medical advice.

After skin contact:

Remove contaminated clothing. Wash exposed skin with large amounts of water for at least 30 minutes. Seek medical advice.

After eye contact:

Wash immediately with running water for at least 30 minutes, keeping eyelids open. If it's possible, remove contact lenses and seek immediate medical assistance.

After swallowing:

Do not induce vomit.

Thoroughly rinse the victim's mouth with water. Seek medical attention.

(Contd. on page 3)

Safety Data Sheet
According to 1907/2006/EC, amended by Regulation (EU) N°
2015/830

Printing date 05.09.2016

Version number 1000

Revision: 05.09.2016

Trade name: Vipafix Cement

(Contd. of page 2)

- **4.2 Most important symptoms and effects, both acute and delayed**
Burning sensation, cough, wheezing, shallow breathing, headache, nausea, and vomit.
- **4.3 Indication of any immediate medical attention and special treatment needed**
*In case of ingestion, it may be necessary to offer humidified oxygen.
Gastric lavage must be undertaken with extreme precaution*

5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
*Non-inflammable product
Use chemical-powder (PQS), chemical-foam, or CO2 sprinkles. Use water-mist spout to cool down adjacencies.*
- **For safety reasons unsuitable extinguishing agents:** *Jet of water.*
- **5.2 Special hazards arising from the substance or mixture**
*In case of fire, do not enter into confined areas without mask for protection against the dangerous effects of combustion products or lack of oxygen.
During combustion, it can emit acid and toxic gases, carbon oxide, chlorinated products, gaseous hydrogen chloride, phosgene, smoke, and particulates.*
- **5.3 Advice for firefighters**
- **Protective equipment:**
Self-contained breathing apparatus (SCBA), complete protective clothing, and leather gloves.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
- **For people who are not part of the emergency services:**
*Stay away from low areas and keep the wind to your back.
Do not touch nor walk over spilt product.
Avoid inhalation, contact with eyes and skin.*
- **For people part of the emergency services:**
*Isolate the area in a radius of at least 100 meters, in all directions.
Stay away from low areas and keep the wind to your back.
Use waterproof protection clothes, nitrile gloves, closed shoes, protection goggles, and breathing mask for organic vapors.
Maintain unauthorized people away.*
- **6.2 Environmental precautions:**
*Prevent from entering pipes / surface water / underground water
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Isolate the area of the accident.*
- **6.3 Methods and material for containment and cleaning up:**
*Collect the material and put it into adequate containers, duly labeled for further treatment and disposal.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.*
- **6.4 Reference to other sections**
*See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.*

(Contd. on page 4)

Safety Data Sheet
 According to 1907/2006/EC, amended by Regulation (EU) N°
 2015/830

Printing date 05.09.2016

Version number 1000

Revision: 05.09.2016

Trade name: Vipafix Cement

See Section 13 for disposal information.

(Contd. of page 3)

7 Handling and storage

- **7.1 Precautions and directions for safe handling:**
 Handle the product in ventilated area or with general ventilation/exhaust system.
 Prohibit drinking, eating and smoking in work areas.
- **Information about fire - and explosion protection:** The product is not flammable.
- **Hygienic measures:**
 Wash your hands before eating, drinking, smoking or using the toilet. Contaminated clothing should be changed and washed before reuse.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Prevention of fire and explosions:**
 Store in a cool location.
 Prevent any seepage into the ground.
 Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **7.3 Specific end use(s)**
 Adhesive for splicing conveyor belts and adhesion of materials such as rubber, wood and fabrics by cold method.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

79-01-6 trichloroethylene

WEL	Short-term value: 820 mg/m ³ , 150 ppm Long-term value: 550 mg/m ³ , 100 ppm Carc; Sk
-----	---

1314-13-2 zinc oxide

PEL-TWA 5 mg/m³ (fumes); 10 mg/m³ (total dust); 5 mg/m³ (breathable fraction)(OSHA, 2010)

- **Ingredients with biological limit values:**

1314-13-2 zinc oxide

Not established

79-01-6 trichloroethylene

Not established

- **8.2 Engineering control measures:**

Provide mechanical ventilation and exhaust system to maintain the vapor concentration lower than the tolerance limit.

- **Personal protective equipment:**

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

(Contd. on page 5)

Safety Data Sheet
 According to 1907/2006/EC, amended by Regulation (EU) N°
 2015/830

Printing date 05.09.2016

Version number 1000

Revision: 05.09.2016

Trade name: Vipafix Cement

(Contd. of page 4)

· Protection of hands and body:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Use waterproof clothes.

Recommended: Nitrile gloves

· Thermal Hazards: Not available.

· Eye protection:

Tightly sealed goggles
· Limitation and supervision of exposure into the environment

Steam aspiration systems must be projected in observance to local regulations concerning limits of emission of volatiles substances.

9 Physical and chemical properties

· Appearance:
Form: Fluid

Colour: Beige

· Odour and odour limit: Characteristic

· pH: Not available.

· Change in condition
Melting point/freezing point: -84.8 °C (trichloroethylene)

Initial boiling point and temperature range: 86.8 °C (trichloroethylene)

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not applicable.

· Decomposition temperature: Not available.

· Self-igniting: Product is not selfigniting.

· Lower/upper limit of flammability or explosiveness:
Lower: 7.8 Vol % (trichloroethylene)

Upper: 52 Vol % (trichloroethylene)

· Vapour pressure at 20 °C: 74.26 mm Hg (trichloroethylene)

(Contd. on page 6)

Safety Data Sheet
 According to 1907/2006/EC, amended by Regulation (EU) N°
 2015/830

Printing date 05.09.2016

Version number 1000

Revision: 05.09.2016

Trade name: Vipafix Cement

(Contd. of page 5)

· Density at 23 °C:	1.42-1.45 g/cm ³
· Relative density	Not available.
· Vapour density	Not available.
· Evaporation rate	Not determined.
· Solubility: water:	Water: low solubility 0.11g/100g of water. Organic solvents: Soluble (cetone, alcohol, ether, chloroform).
· Partition coefficient (n-octanol/water):	2.29 log kow (trichlorethylene)
· Viscosity: Dynamic at 23 °C:	2.610-3.110 cPs
Kinematic:	Not available.
· 9.2 Other information	No further relevant information available.

10 Stability and reactivity

- **10.1 Reactivity and chemical stability:**
 Stable in normal use conditions.
 May have reactions with incompatible materials.
- **10.3 Possibility of hazardous reactions**
 Incompatible with strong oxidants, sodium hydroxide, and potassium hydroxide.
 It reacts with active and non-active metals under heating conditions.
- **10.4 Conditions to avoid**
 Keep away from heated surfaces, sparks or flames since heating causes liberation of toxic gases.
 Avoid storage with solar exposure.
- **10.5 Incompatible materials:**
 Strong oxidant agents (chlorates, peroxides, acids), strong bases such as potassium hydroxide and sodium hydroxide, active and non-active metals, such as aluminum, sodium, barium, zinc, and magnesium.
- **10.6 Hazardous decomposition products:**
 During combustion, it can emit acid and toxic gases, carbon oxide, chlorinated products, phosgene, smoke, and particulates.

11 Toxicological information

- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**
 Product not classified as acute toxic.

79-01-6 trichloroethylene

Oral	LD50	2402 mg/kg (mouse)
Dermal	LD50	8450 mg/kg (mouse)
Inhalative	LD50	11.000 ppm (rabbit)

1314-13-2 zinc oxide

Oral	LD50	> 5000 mg/kg (rat)
------	------	--------------------

- **Skin corrosion/irritation:** Irritant for skin and mucous membranes.

(Contd. on page 7)

Safety Data Sheet
According to 1907/2006/EC, amended by Regulation (EU) N°
2015/830

Printing date 05.09.2016

Version number 1000

Revision: 05.09.2016

Trade name: Vipafix Cement

(Contd. of page 6)

- **Serious eye damage/irritation:** It can cause eye irritation accompanied by redness.
- **Respiratory or skin sensitisation:** It can cause sensitivity to the skin and mucous membranes.
- **Germ cell mutagenicity:** Trichloroethylene: classified as mutagenic in germ cells.
- **Carcinogenicity:** Trichloroethylene: related as possible carcinogenic to humans.
- **Reproductive toxicity:** The product is not expected to present toxicity to reproduction and lactation
- **Toxicity for specific target organ-single exposure:**
It compromises the central nervous system; it can cause drowsiness or vertigo.
- **Toxicity for specific target organ-repeated exposure:**
It can cause damage to the central nervous system and peripheral nervous system by reptida and prolonged exposure.
- **Aspiration hazard:** No available.

12 Ecological information

- **Ecotoxicity:**
Not considered toxic to fish.
Trichloroethylene: LC50: 41 mg/L
- **12.2 Persistence and degradability**
It is expected that the product presents persistence and is not rapidly degraded.
Trichloroethylene: biodegradability of 19% in 28 days.
- **12.3 Bioaccumulative potential**
It does not present bioaccumulative potential in aquatic organisms
Trichloroethylene:
Partition coefficient: Log Kow 2,29
- **12.4 Mobility in soil** Trichloroethylene: High mobility on soil, it can reach deep waters.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

- **13.1 Waste treatment methods:**
- **Product:**
Packaging (plastic and/or cardboard), if not contaminated, should be discarded in accordance to present law.
Must be disposed of as hazardous waste in accordance with local regulations. The treatment and disposal must be evaluated for each particular product. Federal, state and municipal laws should be consulted.
- **Product remains:**
Keep the product remains in its original packaging and properly closed. Disposal should be carried out as established for the product.
- **Uncleaned packaging:**
- **Recommendation:**
Do not reuse empty containers. These may contain residues of the product and should be kept closed and sent for proper disposal as required for the product.

GB

(Contd. on page 8)

Safety Data Sheet
 According to 1907/2006/EC, amended by Regulation (EU) N°
 2015/830

Printing date 05.09.2016

Version number 1000

Revision: 05.09.2016

Trade name: Vipafix Cement

(Contd. of page 7)

14 Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	1710
· 14.2 UN proper shipping name · ADR · IMDG, IATA	1710 TRICHLOROETHYLENE TRICHLOROETHYLENE
· 14.3 Transport hazard class(es) · ADR, IMDG, IATA · Class · Label	6.1 Toxic substances. 6.1
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · EMS Number:	Warning: Toxic substances. F-A,S-A
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code	Not available. Not available. No available Not applicable
· IMDG · Limited quantities (LQ)	Waterway: IMO - "International Maritime Organization" International Maritime Dangerous Goods Code (IMDG Code) 5L
· IATA	Aerial: IATA - "International Air Transport Association" Dangerous Goods Regulation (DGR)
· UN "Model Regulation":	UN1710, TRICHLOROETHYLENE, 6.1, III

15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.

(Contd. on page 9)

Safety Data Sheet
 According to 1907/2006/EC, amended by Regulation (EU) N°
 2015/830

Printing date 05.09.2016

Version number 1000

Revision: 05.09.2016

Trade name: Vipafix Cement

(Contd. of page 8)

 · **Hazard pictograms**


GHS07 GHS08

 · **Signal word** *Danger*

 · **Hazard-determining components of labelling:**
trichloroethylene

 · **Hazard statements**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

 · **Precautionary statements**
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P202 Do not handle until all safety precautions have been read and understood.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of water.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

 · **REGULATION (EC) No 1907/2006 ANNEX XVII** *Conditions of restriction: 3, 28*

 · **National regulations:**

 · **Other regulations, limitations and prohibitive regulations**

 · **Substances of very high concern (SVHC) according to REACH, Article 57**

79-01-6	trichloroethylene
---------	-------------------

 · **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This form provides information on protection, health, safety and the environment. Note that the handling of any chemical substance requires prior knowledge of its dangers to users.

The company using the product is responsible for providing training for its employees and hired parties with regards to the possible adverse risks of the product.

 · **Training hints**

The user of this product should be qualified for handling, operation and application of the product.

 · **Abbreviations and acronyms:**

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Muta. 2: Germ cell mutagenicity – Category 2

Carc. 1B: Carcinogenicity – Category 1B

(Contd. on page 10)

Safety Data Sheet
According to 1907/2006/EC, amended by Regulation (EU) N°
2015/830

Printing date 05.09.2016

Version number 1000

Revision: 05.09.2016

Trade name: Vipafix Cement

(Contd. of page 9)

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· **Sources**

SYSTEM OF CHEMICAL EXPOSURE HAZARD (SIRETOX). Available at: <<http://www.siretox.com.br>>. Access: sep. 2015.

www.osha.gov

QUIMISA. Material Safety Data Sheet, Trichloroethylene IMP. Revision 6, 2015.

VERQUIMICA. Material Safety Data Sheet, Trichloroethylene. Revision 7, 2014.

· *** Data compared to the previous version altered.**

Amendments regarding the update of the Purple Book.