

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

· 1.1 Product identifier

· Trade name: Vulcanizing Cement

· Article number: 470008, 470010, 470011, 470012, 470013, 470035, 470021, 470022, 470023

· 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

· Application of the substance / the mixture To adhere cold cure patches on tire tubes and tires.

· 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

· Further information obtainable from: vipal@vipal.com.br

· 1.4 Emergency telephone number: +55 54 3242 1666

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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· **Hazard pictograms**



· **Signal word** *Danger*

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

n-hexane
butanone

· **Hazard statements**

H225 *Highly flammable liquid and vapour.*
H315 *Causes skin irritation.*
H319 *Causes serious eye irritation.*
H361 *Suspected of damaging fertility or the unborn child.*
H336 *May cause drowsiness or dizziness.*
H373 *May cause damage to organs through prolonged or repeated exposure.*
H411 *Toxic to aquatic life with long lasting effects.*

· **Precautionary statements**

P210 *Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*
P241 *Use explosion-proof electrical/ventilating/lighting/equipment.*
P303+P361+P353 *IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.*
P405 *Store locked up.*
P501 *Dispose of contents/container to ...*

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**











· **PBT:** *Not applicable.*
· **vPvB:** *Not applicable.*

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterization: Mixtures**

· **Description:** *Adhesive solvent based aliphatic / naphthenic, natural rubber and rubber additives.*

· **Dangerous components:**

CAS: 110-54-3 EINECS: 203-777-6	<i>n</i> -hexane  <i>Flam. Liq. 2, H225</i>  <i>Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304</i>  <i>Aquatic Chronic 2, H411</i>  <i>Skin Irrit. 2, H315; STOT SE 3, H336</i>	25-50%
CAS: 78-93-3 EINECS: 201-159-0	<i>butanone</i>  <i>Flam. Liq. 2, H225</i>  <i>Eye Irrit. 2, H319; STOT SE 3, H336</i>	10-25%
CAS: 71-43-2 EINECS: 200-753-7	<i>benzene</i>  <i>Flam. Liq. 2, H225</i>  <i>Muta. 1B, H340; Carc. 1A, H350; STOT RE 1, H372; Asp. Tox. 1, H304</i>  <i>Skin Irrit. 2, H315; Eye Irrit. 2, H319</i>	<0.1%
CAS: 5459-93-8 EINECS: 226-733-8	<i>cyclohexyl(ethyl)amine</i>  <i>Acute Tox. 4, H302</i>	2.5%

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· Additional information:

Note P: It is not necessary to classify the substance as cancerigenous, as it contains less than 0.1% m/m of benzene

SECTION 4: First aid measures**· 4.1 Description of first aid measures****· General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Remove the victim to fresh air and keep at rest in a position comfortable for breathing. If necessary consult a doctor.

· After skin contact:

Remove the contaminated clothing and footwear. Wash the exposed skin with copious amounts of water, for at least 15 minutes and seek medical attention if necessary.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· 4.2 Most important symptoms and effects, both acute and delayed *No further relevant information available.***· 4.3 Indication of any immediate medical attention and special treatment needed**

*If necessary, symptomatic treatment should include, above all, support measures to correction of hydro electrolytic and metabolic disturbances, and respiratory assistance.
Gastric lavage must be undertaken with extreme precaution*

SECTION 5: Firefighting measures**· 5.1 Extinguishing media****· Suitable extinguishing agents:**

Use chemical-powder (PQS), chemical-foam, or CO₂ sprinkles. Use water-mist spout to cool down adjacencies.

· For safety reasons unsuitable extinguishing agents: *water on the flames***· 5.2 Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

· 5.3 Advice for firefighters**· Protective equipment:**

Wear fully protective suit.

Use self contained breathing apparatus (SCBA)

SECTION 6: Accidental release measures**· 6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions: *Do not allow product to reach sewage system or any water course.***· 6.3 Methods and material for containment and cleaning up:**

Dispose of the material collected according to regulations.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
 Avoid the formation of vapors or mists.
 Open and handle receptacle with care.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Store in a dry and ventilated place, keeping the containers closed.

· Information about storage in one common storage facility: Store away from foodstuffs.

· Further information about storage conditions:

Keep container tightly sealed.
 Store in cool, dry conditions in well sealed receptacles.
 Protect from heat and direct sunlight.

· 7.3 Specific end use(s) To adhere cold cure patches on tire tubes and tires.

SECTION 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:

110-54-3 n-hexane

WEL Long-term value: 72 mg/m³, 20 ppm

78-93-3 butanone

WEL Short-term value: 899 mg/m³, 300 ppm
 Long-term value: 600 mg/m³, 200 ppm
 Sk

· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes and skin.

· 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.
 Recommended: Half-face mask with filter for organic vapors.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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 according to 1907/2006/EC, Article 31, amended by Regulation (EU)
 No. 453/2010

Printing date 05.09.2014

Version number 68

Revision: 05.09.2014

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Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

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.

Nominated: Nitrile Glove

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** *Impervious protective clothing*

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Fluid
Colour: According to product specification

· **Odour:** *Characteristic*

· **Odour threshold:** *Not determined.*

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 62 °C

· **Flash point:** *-35 °C*

· **Self-igniting:** *Product is not selfigniting.*

· **Danger of explosion:** *Product is not explosive. However, formation of explosive air/vapour mixtures are possible.*

· **Explosion limits:**

Lower: 1.1 Vol %

Upper: 7.5 Vol %

· **Vapour pressure at 20 °C:** *17 KPa*

· **Density at 20 °C:** *0.70 a 0.81 g/cm³*

· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· **Viscosity:**

Dynamic: Not determined.

· **Solvent content:**

Organic solvents: 70.0 %

Solids content: 30.0 %

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· **9.2 Other information** *No further relevant information available.*

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability** *Stable in normal use conditions.*
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **10.3 Possibility of hazardous reactions** *No dangerous reactions known.*
- **10.4 Conditions to avoid** *Sources of heat and ignition.*
- **10.5 Incompatible materials:** *Strong agents (liquid chlorine, concentrated oxygen and dinitrogen tetroxide).*
- **10.6 Hazardous decomposition products:**
A toxic gas mixture is formed upon combustion, chiefly containing CO₂ and CO.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** *Causes irritation with reddening and drying.*
- **on the eye:** *Irritation with tearing, and congestion.*
- **Sensitization:**
May cause dermatitis with dryness by repeated or prolonged exposure. Not expected to give rise sensitization breathing.
- **Danger through aspiration:**
*The aspiration of the product may cause pulmonary edema and chemical pneumonitis.
 May cause headache, dizziness, nausea, sleepiness and malaise.*
- **Danger through ingestion:** *Accidental ingestion may cause nausea and vomiting, with gastrointestinal problems.*
- **Other information (about experimental toxicology):** *Not available*
- **Subacute to chronic toxicity:** *Not available*
- **Toxicokinetics, metabolism and distribution** *Not available*
- **Acute effects (acute toxicity, irritation and corrosivity)** *Not available*
- **Sensitisation** *Not available*
- **Toxicity for specific target Organ - Single exposure:**
Can cause respiratory tract irritation and narcotic effects with breathlessness, cough, dizziness, drowsiness, weakness, loss of consciousness and headache.
- **Repeated dose toxicity**
Can cause damage to the central nervous system and peripheral nervous system by repeated and prolonged exposure.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
*Can cause genetic defect. Can damage fertility or the unborn child.
 Repr. 2*

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** *When in contact with water, aquatic life may be jeopardized.*
- **12.2 Persistence and degradability** *It is expected rapid degradation and low persistence.*
- **12.3 Bioaccumulative potential**
Partition coefficient: Log K_{ow}: >3

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It is not expected any change in the environment due to its physico-chemical properties when released into the atmosphere.

· **12.4 Mobility in soil** High mobility in soil.

· **Ecotoxicological effects:**

· **Remark:** Toxic for fish

· **Additional ecological information:**

· **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even extremely small quantities leak into the ground.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

15 00 00 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

15 01 00 packaging (including separately collected municipal packaging waste)

15 01 04 metallic packaging

15 00 00 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

15 01 00 packaging (including separately collected municipal packaging waste)

15 01 01 paper and cardboard packaging

· **Uncleaned packaging:**

· **Recommendation:**

Do not reuse containers.

Final destination must be in accord with existing legal legislation.

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

1133

· **14.2 UN proper shipping name**

· **ADR**

1133 ADHESIVES

· **14.3 Transport hazard class(es)**

· **ADR, IMDG, IATA**



· **Class**

3 Flammable liquids.

· **Label**

3

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· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number:	Warning: Flammable liquids. 33 F-E,S-D
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ) · Tunnel restriction code	5L D/E
· UN "Model Regulation":	UN1133, ADHESIVES, containing flammable liquid 3, II

SECTION 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.

- **Hazard pictograms**



GHS02 GHS07 GHS08 GHS09

- **Signal word** *Danger*

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

n-hexane
butanone

- **Hazard statements**

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H361 Suspected of damaging fertility or the unborn child.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

- **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P405 Store locked up.
P501 Dispose of contents/container to ...

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

SECTION 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.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H340 May cause genetic defects.

H350 May cause cancer.

H361f Suspected of damaging fertility.

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

· **Training hints**

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

· **Recommended restriction of use** To adhere cold cure patches on tire tubes and tires.

· **Department issuing MSDS:** Product Regulations and Information.

· **Contact:** Daiane Torani

· **Abbreviations and acronyms:**

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Muta. 1B: Germ cell mutagenicity, Hazard Category 1B

Carc. 1A: Carcinogenicity, Hazard Category 1A

Repr. 2: Reproductive toxicity, Hazard Category 2

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

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