

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

Printing date 05.07.2017

Version number 1002

Revision: 05.07.2017

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

### 1.1 Product identifier

· **Trade name:** Vulcanizing Cement CV-00, Vulcanizing Cement CV-01, Vulcanizing Cement CV-02, Vulcanizing Cement BV-01, Vulcanizing Cement BV-02, Vulcanizing Cement BV-03

· **Internal identification code:** 470008, 470010, 470011, 470012, 470013, 470035, 470021, 470022, 470023

· **Main recommended uses for the substance or product:**

To adhere cold cure patches on tire tubes and tires.

For further information consult the technical data sheet.

· **Uses advised against**

Remove all sources of ignition. Keep away from heat, open flames, hot surfaces, sparks and not smoke.

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:**

VIPAL EUROPE SL

Calle General Urrutia, 75 – 10-B

46013 – Valencia – Espanha.

Tel.: + 34 963 259510 / +34 963 259520

Fax.: + 34 963 281683

· **E-mail:** vipaleurope@vipal-eu.com

· **1.4 Emergency telephone number:**

+34 963 259510

Frederico Schmidt

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

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

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

### 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**



GHS02 GHS07 GHS08

· **Signal word** Danger

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

Distillates (petroleum), C6-rich  
butanone

(Contd. on page 2)

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(Contd. of page 1)

**· 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.
- H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H304 May be fatal if swallowed and enters airways.

**· Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P202 Do not handle until all safety precautions have been read and understood.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P403+P235 Store in a well-ventilated place. Keep cool.
- 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**
**· Dangerous components:**

CAS: 93165-19-6 EINECS: 296-903-4	Distillates (petroleum), C6-rich Muta. 1A, H340; Carc. 1A, H350; Asp. Tox. 1, H304	50-70%
CAS: 78-93-3 EINECS: 201-159-0	butanone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	25-35%
CAS: 5459-93-8 EINECS: 226-733-8	cyclohexyl(ethyl)amine Acute Tox. 4, H302	1-2%
CAS: 71-43-2 EINECS: 200-753-7	benzene Flam. Liq. 2, H225 Muta. 1B, H340; Carc. 1A, H350; STOT RE 1, H372; Asp. Tox. 1, H304 Skin Irrit. 2, H315; Eye Irrit. 2, H319	<0.1%

**· Additional information:**

For the wording of the listed hazard phrases refer to section 16.

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

GB

(Contd. on page 3)

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(Contd. of page 2)

#### **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 and keep at rest in a position comfortable for breathing. If necessary consult a doctor.

**· After skin contact:**

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

Do not palpate nor rub the affected area.

**· 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.

**· 4.2 Most important symptoms and effects, both acute and delayed**

May cause skin irritation with dryness and redness.

May cause eye irritation with tearing, pain and redness.

May cause shortness of breath, cough, dizziness drowsiness, weakness, loss of consciousness and headache.

It can cause damages to the central and peripheral nervous systems due to prolonged and repeated exposure.

Aspiration can cause pulmonary oedema and chemical pneumonitis.

It can cause damages to the cardiovascular system with tachycardia and ventricular arrhythmia.

**· 4.3 Indication of any immediate medical attention and special treatment needed**

Avoid contact with the product when helping the victim.

If necessary, symptomatic treatment should include, above all, support measures to correction of hydro electrolytic and metabolic disturbances, and respiratory assistance.

#### **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: Jet of water.**

**· 5.2 Special hazards arising from the substance or mixture**

Dangerous when exposed to excessive heat or other sources of ignition.

It can move long distances causing retrogression of flame or new fires both in open environments such as confined.

The vapors are denser than air and tend to collect in low or confined areas.

The combustion of the product or its packaging can cause irritating and toxic gases, like carbon monoxide and dioxide.

The vapors may produce explosive mixtures with air, reaching a source of ignition and leading to flames.

(Contd. on page 4)

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(Contd. of page 3)

- **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:**  
Eliminate all ignitions sources. Do not smoke.  
Do not touch nor walk over spilt product.  
Stay away from low areas and keep the wind to your back.
- **For people part of the emergency services:**  
Use waterproof protection clothes, nitrile gloves, closed shoes, protection goggles, and breathing mask for organic vapors.  
Isolate the area in a radius of at least 50 meters, in all directions.  
Maintain unauthorized people away.
- **6.2 Environmental precautions:**  
Do not allow to enter sewers/ surface or ground water.  
Prevent seepage into sewage system, workpits and cellars.  
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.  
Using water mist or vapor suppressing foam to reduce the dispersion of vapors  
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.  
See Section 13 for disposal information.

## 7 Handling and storage

- **7.1 Precautions and directions for safe handling:**  
Handle the product in ventilated area or with general ventilation/exhaust system.  
Avoid the formation of vapors or mists.  
Prohibit drinking, eating and smoking in work areas.
- **Information about fire - and explosion protection:**  
Protect against electrostatic charges.  
Keep ignition sources away - Do not smoke.
- **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:**  
Remove all sources of ignition. Keep away from heat, open flames, hot surfaces, sparks and not smoke.  
Store in a dry and ventilated place, keeping the containers closed.  
Inspect containers for damage or leaks before handling them.

(Contd. on page 5)

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(Contd. of page 4)

- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **7.3 Specific end use(s)** To adhere cold cure patches on tire tubes and tires.

**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:**

**71-43-2 benzene**

WEL	Long-term value: 3.25 mg/m <sup>3</sup> , 1 ppm Carc; Sk
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**78-93-3 butanone**

WEL	Short-term value: 899 mg/m <sup>3</sup> , 300 ppm Long-term value: 600 mg/m <sup>3</sup> , 200 ppm Sk, BMGV
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**93165-19-6 Distillates (petroleum), C6-rich**

	ACGIH (2014) TLV-TWA 50 ppm NIOSH (2011) REL-TWA 50 ppm OSHA (2010) PEL-TWA 500 ppm
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· **Ingredients with biological limit values:**

**93165-19-6 Distillates (petroleum), C6-rich**

BEI (ACGIH, 2014)	2.5-hexanedione in urine: 0.4 mg/l (end of last working day)
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**78-93-3 butanone**

BMGV	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one
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· **8.2 Engineering control measures:**

Provide mechanical ventilation and exhaust system so 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.

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

· **Protection of hands and body:**

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.

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

Prior to contact with the waterinsoluble substance / product / preparation apply watersoluble skin-protecting agent (fat-free film former or O/W-emulsions).

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

(Contd. on page 6)

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(Contd. of page 5)

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:** Viscous liquid

**Colour:** Light beige

· **Odour and odour limit:** Characteristic

· **pH:** Not available.

· **Change in condition**

**Melting point/freezing point:** -95 °C (hexane)

**Initial boiling point and temperature range:** 62-74 °C (hexane)

· **Flash point:** -35 °C (hexane)  
closed cup

· **Flammability (solid, gaseous):** Not applicable.

· **Decomposition temperature:** No disponible.

· **Self-igniting:** 225 °C (hexane)  
404 °C (butanone)

· **Lower/upper limit of flammability or explosiveness:**

**Lower:** 1.1 Vol % (hexane)

**Upper:** 7.5 Vol % (hexane)

· **Vapour pressure at 20 °C:** 17 kPa (hexane)

· **Density at 23 °C:** 0.71-0.74

· **Relative density** Not available.

· **Vapour density** Not available.

· **Solubility:**

**water:** Insoluble.

· **Partition coefficient (n-octanol/water):** 3.90 log kow (hexane)

(Contd. on page 7)

## Safety Data Sheet

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(Contd. of page 6)

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>Viscosity:</b></li> <li style="padding-left: 20px;"><i>Dynamic at 23 °C:</i></li> <li style="padding-left: 20px;"><i>Kinematic at 25 °C:</i></li> <li>· <b>9.2 Other information</b></li> </ul> | <p style="margin-left: 20px;">1700-3000 cPs</p> <p style="margin-left: 20px;">0.45 cSt (hexane)</p> <p style="margin-left: 20px;">No further relevant information available.</p> |
|---|--|

### 10 Stability and reactivity

- **10.1 Reactivity and chemical stability:** Stable in normal use conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Elevated temperatures. Ignition sources and incompatible materials contact.
- **10.5 Incompatible materials:**  
Strong acids, strong bases, isocyanates, ammonium, amine, pyridine, and compounds with large affinity to the cetone group.  
Strong agents (liquid chlorine, concentrated oxygen and dinitrogen tetroxide).
- **10.6 Hazardous decomposition products:**  
A toxic gas mixture is formed upon combustion, chiefly containing CO<sub>2</sub> and CO.

### 11 Toxicological information

- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

#### 93165-19-6 Distillates (petroleum), C6-rich

Oral	LD50	>5.000 mg/kg (rat)
Dermal	LD50	3.000 mg/kg (rat)
Inhalative	LC50/4 h	> 5.000 ppm (rat)

#### 78-93-3 butanone

Oral	LD50	2.200 mg/kg (rat)
Dermal	LD50	7.200 mg/kg (rabbit)
Inhalative	LC50/4 h	4.000 mg/l (rat)

#### 71-43-2 benzene

Oral	LD50	4894 mg/kg (rat)
Dermal	LD50	48 mg/kg (mouse)
Inhalative	LC50/4 h	9980 mg/l (mouse)

- **Skin corrosion/irritation:** It causes skin irritation with dryness, redness, and cracks.
- **Serious eye damage/irritation:** It can cause eye irritation accompanied by redness.
- **Respiratory or skin sensitisation:**  
May cause dermatitis with dryness by repeated or prolonged exposure. Not expected to give rise sensitization breathing.
- **Germ cell mutagenicity:** It is not expected mutagenic effects in germ cells.
- **Carcinogenicity:**  
Hexane: benzene concentration inferior to 0.1%, not classified as carcinogenic.  
Butanone: carcinogenic effect is not completely confirmed. Tests of lymphoma in mice: negative
- **Reproductive toxicity:** Suspected of damaging fertility or the unborn child.

(Contd. on page 8)

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**Trade name: Vulcanizing Cement CV-00, Vulcanizing Cement CV-01, Vulcanizing Cement CV-02,  
Vulcanizing Cement BV-01, Vulcanizing Cement BV-02, Vulcanizing Cement BV-03**

(Contd. of page 7)

- **Toxicity for specific target organ-single exposure:**  
*It can cause respiratory tract irritation and narcotic effects with breathlessness, cough, dizziness, drowsiness, weakness, loss of consciousness and headache.*  
*It can cause damages to the central nervous system with loss of conscience and convulsion.*
- **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:** *The aspiration of the product may cause pulmonary edema and chemical pneumonitis.*

## 12 Ecological information

- **Ecotoxicity:**  
*Toxic to aquatic life.*  
*Hexane:*  
*CL50 (fish, 96h): 2,5 mg/l*  
*Butanone:*  
*CL50 (fish, 96h): 3200 mg/l*  
*CE50 (crustacean, 48h): 5091 mg/l*
- **12.2 Persistence and degradability**  
*It is expected rapid degradation and low persistence.*  
*Butanone: 98% biodegradable after 28 days*
- **12.3 Bioaccumulative potential**  
*It does not present bioaccumulative potential in aquatic organisms*  
*Hexane:*  
*BCF:200*  
*Log kow: 3,90*
- **12.4 Mobility in soil**  
*Hexane: high mobility on the ground*  
*Butanone: No available*
- **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 destined in according 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.*

(Contd. on page 9)

GB



**Safety Data Sheet**  
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Version number 1002

Revision: 05.07.2017

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(Contd. of page 8)

- **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.

**14 Transport information**

· <b>14.1 UN-Number</b> · <b>ADR, IMDG, IATA</b>	UN1133
· <b>14.2 UN proper shipping name</b> · <b>ADR, IMDG, IATA</b>	1133 ADHESIVES, containing flammable liquid
· <b>14.3 Transport hazard class(es)</b> · <b>ADR, IMDG, IATA</b> · <b>Class</b>	3 Flammable liquids.
· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	II
· <b>14.5 Environmental hazards:</b> · <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b> · <b>EMS Number:</b>	Warning: Flammable liquids. F-E,S-D
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b> · <b>Transport category</b> · <b>Tunnel restriction code</b>	Not available. Not available. No available Not applicable
· <b>IMDG</b>  · <b>Limited quantities (LQ)</b>	Waterway: IMO - "International Maritime Organization" International Maritime Dangerous Goods Code (IMDG Code) 5L
· <b>IATA</b>	Aerial: IATA - "International Air Transport Association" Dangerous Goods Regulation (DGR)
· <b>UN "Model Regulation":</b>	UN1133, ADHESIVES, containing flammable liquid 3, II

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 Vulcanizing Cement BV-01, Vulcanizing Cement BV-02, Vulcanizing Cement BV-03**

(Contd. of page 9)

### 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

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**  
 Distillates (petroleum), C6-rich  
 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.*
  - H335-H336 *May cause respiratory irritation. May cause drowsiness or dizziness.*
  - H372      *Causes damage to organs through prolonged or repeated exposure.*
  - H304      *May be fatal if swallowed and enters airways.*
- **Precautionary statements**
  - P210      *Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*
  - P202      *Do not handle until all safety precautions have been read and understood.*
  - P301+P310 *IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*
  - P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
  - P403+P235 *Store in a well-ventilated place. Keep cool.*
  - P501      *Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** *None of the ingredients is listed.*
- **Seveso category** *P5c FLAMMABLE LIQUIDS*
- **REGULATION (EC) No 1907/2006 ANNEX XVII** *Conditions of restriction: 3*
- **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.*

(Contd. on page 11)

**Safety Data Sheet**  
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**Vulcanizing Cement BV-01, Vulcanizing Cement BV-02, Vulcanizing Cement BV-03**

(Contd. of page 10)

**· Training hints**

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

**· Abbreviations and acronyms:**

*Flam. Liq. 2: Flammable liquids – Category 2*

*Acute Tox. 4: Acute toxicity – Category 4*

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

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

*Muta. 1A: Germ cell mutagenicity – Category 1A*

*Muta. 1B: Germ cell mutagenicity – Category 1B*

*Carc. 1A: Carcinogenicity – Category 1A*

*Repr. 2: Reproductive toxicity – Category 2*

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

*STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1*

*Asp. Tox. 1: Aspiration hazard – Category 1*

**· Sources**

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

*Access: sep. 2015.*

*[www.osha.gov](http://www.osha.gov)*

*BR Petrobras Distribuidora. Material Safety Data Sheet, Hexano BR. Revision 6, 2015.*

*VERQUIMICA. Material Safety Data Sheet, Methyl Ethyl Ketone. Revision 7, 2014.*

*BRENNTAG. Material Safety Data Sheet, Methyl Ethyl Ketone. Revision 1, 2015.*

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

*Amendments regarding the update of the Purple Book.*