

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 03/03/2016

Reviewed on 03/03/2016





**1 Identification**

- **Product identifier**
- **Trade name:** Vulk Cement
- **Internal identification code:** 475006
- **Main recommended uses for the substance or product:**  
Vulk Cement is indicated to retread tire processes, by mold cure or precure methods. Is recommended to patch application and inner tube repair, both using hot method.
- **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.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Vipal Rubber Corporation  
2750 N.W. 84th Avenue  
Miami, Florida – 33122 – USA  
Phone: 305 640 0330  
Fax: 305 640 0310
- **E-mail:** info@vipal-usa.com
- **Emergency telephone number:** + 1 305 640 0305

**2 Hazard(s) identification**

- **Classification of the substance or mixture**  

Flam. Liq. 2	H225 Highly flammable liquid and vapor.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2B	H320 Causes eye irritation.
Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects.
- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**  

			
GHS02	GHS07	GHS08	GHS09
- **Signal word** Danger
- **Hazard-determining components of labeling:**  
Naphtha (petroleum), light straight-run
- **Hazard statements**  

H225	Highly flammable liquid and vapor.
H315+H320	Causes skin and eye irritation.
H304	May be fatal if swallowed and enters airways.
H410	Very toxic to aquatic life with long lasting effects.
- **Precautionary statements**  

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

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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.

- **Classification system:** Globally Harmonized System of Classification and Labelling of Chemicals (GHS).
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization:** Mixture
- **Description:** Petroleum-naphtha-based adhesive, polymer and additives.

· **Dangerous components:**

64741-46-4	Naphtha (petroleum), light straight-run	70-100%
1333-86-4	Carbon black	3-5%
1314-13-2	zinc oxide	<1%
120-78-5	di(benzothiazol-2-yl) disulphide	2.5-<1%

### 4 First-aid measures

· **Description of first aid measures**

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.

· **After inhalation:**

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

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

· **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:**

Thoroughly rinse the victim's mouth with water. Seek medical attention.  
Do not induce vomit.

· **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.

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

In case of skin contact not rub the affected site.

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

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Avoid contact with the product when helping the victim.

### 5 Fire-fighting measures

- **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.
- **Special hazards arising from the substance or mixture:**  
Highly flammable product and very dangerous when exposed to excessive heat or ignition sources.
- **Advice for firefighters:**
- **Protective equipment:**  
Self-contained breathing apparatus (SCBA), complete protective clothing, and leather gloves.

### 6 Accidental release measures

- **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.  
Avoid inhalation, contact with eyes and skin.
- **For people part of the emergency services:**  
Isolate the area in a radius of at least 50 meters, in all directions.  
Maintain unauthorized people away.  
Use waterproof protection clothes, nitrile gloves, closed shoes, protection goggles, and breathing mask for organic vapors.
- **Environmental precautions:**  
Do not allow to enter sewers/ surface or ground water.  
Isolate the area of the accident.  
Prevent seepage into sewage system, workpits and cellars.  
Stop leaking avoiding contact with the skin and with clothes.
- **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.
- **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

- **Handling:**
- **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.  
Avoid incompatible materials contact.
- **Information about fire and explosion protection:**  
Avoid the formation of static loads.  
Keep ignition sources away - Do not smoke.

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- **Hygienic measures:**  
Wash your hands before eating, drinking, smoking or using the toilet. Contaminated clothing should be changed and washed before reuse.
- **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.  
Inspect containers for damage or leaks before handling them.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Specific end use(s)**  
Vulk Cement is indicated to retread tire processes, by mold cure or precure methods. Is recommended to patch application and inner tube repair, both using hot method.

## \* 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

### 1333-86-4 Carbon black

PEL	Long-term value: 3.5 mg/m <sup>3</sup>
REL	Long-term value: 3.5* mg/m <sup>3</sup> *0.1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m <sup>3</sup> *inhalable fraction

- **Ingredients with biological limit values:** Non-biological indicators of exposure were established.
- **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 respiratory protective device that is independent of circulating air.  
Indication: breathing mask 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  
Use waterproof clothes.  
Recommended: Nitrile gloves
- **Thermal Hazards:** Not available.
- **Eye protection:**



Tightly sealed goggles

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- **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

· <b>Appearance:</b>	
· <b>Form:</b>	Viscous liquid
· <b>Color:</b>	Black
· <b>Odour and odour limit:</b> Characteristic	
· <b>pH</b> Not available.	
· <b>Change in condition</b>	
· <b>Melting point/Melting range:</b>	Not available.
· <b>Initial boiling point and temperature range:</b>	65-125 °C (149-257 °F) (naphtha)
· <b>Flash point:</b> -35 °C (-31 °F) (naphtha) closed cup	
· <b>Flammability (solid, gaseous):</b> Flammable.	
· <b>Ignition temperature:</b>	
· <b>Decomposition temperature:</b> Not available.	
· <b>Self-igniting:</b> Not available	
· <b>Danger of explosion:</b> Risk of explosion by shock, friction, fire or other sources of ignition.	
· <b>Lower/upper limit of flammability or explosiveness:</b>	
· <b>Lower:</b>	Not available
· <b>Upper:</b>	Not available
· <b>Vapor pressure:</b> Not available.	
· <b>Density at 20 °C (68 °F):</b> 0.70-0.74 g/cm <sup>3</sup> (5.842-6.175 lbs/gal)	
· <b>Relative density</b> Not available.	
· <b>Vapor density</b> Not available.	
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Insoluble.
· <b>Partition coefficient (n-octanol/water):</b> 4.85 log kow (naphtha)	
· <b>Viscosity:</b>	
· <b>Dynamic at 20 °C (68 °F):</b>	420-520 cPs
· <b>Kinematic:</b>	Not available.
· <b>Other information</b> No further relevant information available.	

## 10 Stability and reactivity

- **Reactivity and chemical stability:**  
Stable in normal use conditions.  
May have reactions with incompatible materials.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Elevated temperatures. Ignition sources and incompatible materials contact.

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- **Incompatible materials:** Strong oxidizers and acids.
- **Hazardous decomposition products:**  
A toxic gas mixture is formed upon combustion, chiefly containing CO<sub>2</sub> and CO.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

### · LD/LC50 values that are relevant for classification:

#### 1314-13-2 zinc oxide

Oral	LD50	> 5000 mg/kg (rat)
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#### 64741-46-4 Naphtha (petroleum), light straight-run

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	3000 mg/kg (rabbit)

- **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:** It is not expected that the product presents carcinogenicity to humans.
- **Reproductive toxicity:** It is not expected that the product presents toxicity to reproduction and lactation.
- **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.
- **Toxicity for specific target organ-repeated exposure:**  
It is not expected that the product presents effects of toxicity for specific target organs by repeated exposure.
- **Aspiration hazard:** The aspiration of the product may cause pulmonary edema and chemical pneumonitis.

## 12 Ecological information

- **Ecotoxicity:**  
Naphtha: EC50 (algae, 96h): 0,26 mg/L  
Carbon black: EC50 (algae, 72h): > 10.000 mg/L  
                  LC50 (fish, 96h): > 1000 mg/L  
Zinc oxide: LC50 (fish, 96h): 2246 mg/L
- **Persistence and degradability**  
Due to the absence of data, it is expected that the product presents persistence and is not rapidly degraded.
- **Bioaccumulative potential**  
Naphtha: Log kow: 4,85  
It is expected potential for bioaccumulation in aquatic animals.  
Zinc oxide: BCF: 3  
                  Log kow: 1,53
- **Mobility in soil** Undetermined.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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## 13 Disposal considerations

- **Waste treatment methods:**

- **Product:**

*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.*

*Packaging (plastic and/or cardboard), if not contaminated, should be discarded in accordance to present law.*

- **Product remains:**

*Keep the product remains in its original packaging and properly closed. Disposal should be carried out as established for the product.*

- **Uncleaned packagings:**

- **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>· UN-Number</b>	
<b>· DOT, ADR, IMDG, IATA</b>	UN1133
<b>· UN proper shipping name</b>	
<b>· ADR, IMDG, IATA</b>	1133 ADHESIVES, containing flammable liquid
<b>· Transport hazard class(es)</b>	
<b>· ADR</b>	3 Flammable liquid
<b>· IMDG, IATA</b>	
<b>· Class</b>	3 Flammable liquids
<b>· Packing group</b>	II
<b>· Environmental hazards:</b>	yes
<b>· Marine pollutant:</b>	Symbol (fish and tree)
<b>· Special precautions for user</b>	Attention: flammable liquid
<b>· EMS Number:</b>	F-E,S-D
<b>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>· Transport/Additional information:</b>	
<b>· IMDG</b>	Waterway: IMO - "International Maritime Organization" International Maritime Dangerous Goods Code (IMDG Code)
<b>· Limited quantities (LQ)</b>	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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## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

1314-13-2 | zinc oxide

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

1333-86-4 | Carbon black

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

1314-13-2 | zinc oxide

D, I, II

· **TLV (Threshold Limit Value established by ACGIH)**

1333-86-4 | Carbon black

A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

1333-86-4 | Carbon black

· **GHS label elements**

Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02

GHS07

GHS08

GHS09

· **Signal word Danger**

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

Naphtha (petroleum), light straight-run

· **Hazard statements**

H225 Highly flammable liquid and vapor.

H315+H320 Causes skin and eye irritation.

H304 May be fatal if swallowed and enters airways.

H410 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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

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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.*

· **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.*

· **Date of preparation / last revision** 03/03/2016 / 999

· **Abbreviations and acronyms:**

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

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

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

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

*Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1*

· **Sources**

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

*BR Petrobras Distribuidora. Material Safety Data Sheet, Solbrax 55/75. Revision 5, 2015.*

*www.osha.gov*

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

*Amendments regarding the update of the Purple Book.*