

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

Printing date 26.05.2017

Version number 1002

Revision: 26.05.2017

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

1.1 Product identifier

- Trade name: Vulk Cement Rendiplus SR100
Vulk Cement Multipurpose SR300
Vulk Cement Rendiplus SR200
Vulk Cement Rendiplus to Pressure Pump SR200

· Internal identification code: 475204, 475221, 475233, 475205, 475228, 475237, 475227

· 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.
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
General Urrutia, street - 75 - 10-B
46013 - Valencia - Spain.
Phone.: + 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.

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

STOT SE 2 H371 May cause damage to organs.

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*

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

Distillates (petroleum), C6-rich

· **Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H361 Suspected of damaging fertility or the unborn child.

H371 May cause damage to organs.

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.

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.

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

· **Dangerous components:**

CAS: 93165-19-6 EINECS: 296-903-4	Distillates (petroleum), C6-rich Muta. 1A, H340; Carc. 1A, H350; Asp. Tox. 1, H304	70-100%
CAS: 1333-86-4 EINECS: 215-609-9	Carbon black Self-heat. 2, H252	2-5%
CAS: 1314-13-2 EINECS: 215-222-5	zinc oxide Aquatic Acute 1, H400; Aquatic Chronic 1, H410	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:**

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

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

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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:

Do not palpate nor rub the affected area.

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 vomiting; call for medical help immediately.

· 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

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

Avoid contact with the product when helping the victim.

5 Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

Use dry chemical fire extinguishers (DCP), chemical foam or CO2. Use a mist water hose to cool the product and adjacent areas.

· 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.

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

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.

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- **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:**
Do not touch nor walk over spilt product.
Eliminate all ignitions sources. Do not smoke.
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.
- **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.
Stop leaking avoiding contact with the skin and with clothes.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Using water mist or vapor suppressing foam to reduce the dispersion of vapors
Collect the material and put it into adequate containers, duly labeled for further treatment and disposal.
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:**
Avoid the formation of vapors or mists.
Handle the product in ventilated area or with general ventilation/exhaust system.
- **Information about fire - and explosion protection:**
Avoid the formation of static loads.
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.
Inspect containers for damage or leaks before handling them.

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

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

· **7.3 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 facilities:** No further data; see item 7.

· **8.1 Control parameters**

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

hexane: NIOSH (2011) REL: TWA 50 ppm

OSHA (2010) PEL: TWA 500 ppm

Carbon Black: NIOSH, 2011) REL: TWA: 3,5 mg/m³

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

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

WEL	Short-term value: 7 mg/m ³
	Long-term value: 3.5 mg/m ³

· **Ingredients with biological limit values:**

93165-19-6 - Hexane: ACGIH - Biological determinant of exposure S-phenylmercapturic acid in urine (1997); BEI 25ug/g creatinine - Notation: Basal. Biological determinant of exposure: t, tmuconic acid in urin (2000); BEI: 500ug/g creatinine - Notation: Basal

71-43-2 - Benzene - ACGIH - Biological determinant of exposure S-phenylmercapturic acid in urine (1997); BEI: 25ug/g creatinine - Notation: Basal. Biological determinant of exposure: t, tmuconic acid in urin (2000); BEI: 500ug/g creatinine - Notation: Basal

· **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

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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: Viscous liquid

Colour: Black

· **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:** Not available.

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

· **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:**

Relative density at 23 °C 0.68-0.74

Vapour density Not available

Evaporation rate Not available.

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· Solubility: water:	<i>Insoluble.</i>
· Partition coefficient (n-octanol/water):	<i>3.90 log POW (hexane)</i>
· Viscosity: Dynamic at 20 °C: Kinematic:	<i>420-520 cPs</i> <i>Not available.</i>
· 9.2 Other information	<i>No further relevant information available.</i>

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 agents (liquid chlorine, concentrated oxygen and dinitrogen tetraoxide).*
- **10.6 Hazardous decomposition products:**
A toxic gas mixture is formed upon combustion, chiefly containing CO₂ and CO.

11 Toxicological information

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

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

1314-13-2 zinc oxide

Oral	LD50	> 5000 mg/kg (rat)
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1333-86-4 Carbon black

Oral	LD50	10000 mg/kg (rat)
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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)

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:** *Causes irritation with reddening and drying.*
- **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.*
- **Reproductive toxicity:** *Suspected of damaging fertility or the unborn child.*

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- **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:**
Hexane: LC50 (fish, 96h): 2,5 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
- **12.2 Persistence and degradability**
It is expected that the product presents persistence and is not rapidly degraded.
- **12.3 Bioaccumulative potential**
It does not present bioaccumulative potential in aquatic organisms
Hexane: BCF:200
Log kow: 3,90
Zinc oxide: BCF: 3
Log kow: 1,53
- **12.4 Mobility in soil**
Hexane: High mobility in soil
Zinc oxide: Low mobility in soil
- **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.
Treatment and disposal must be specifically evaluated for each product. Federal, state, and city laws must 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.

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- **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

· 14.1 UN-Number · ADR, IMDG, IATA	UN1133
· 14.2 UN proper shipping name · ADR, IMDG, IATA	1133 ADHESIVES, containing flammable liquid
· 14.3 Transport hazard class(es) · ADR, IMDG, IATA · Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · EMS Number:	Warning: Flammable liquids. F-E,S-D
· 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":	UN1133, ADHESIVES, containing flammable liquid 3, II

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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
- **Hazard statements**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H361 Suspected of damaging fertility or the unborn child.
H371 May cause damage to organs.
H372 Causes damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
- **Precautionary statements**

<i>P210</i>	<i>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</i>
<i>P301+P310</i>	<i>IF SWALLOWED: Immediately call a POISON CENTER/ doctor.</i>
<i>P305+P351+P338</i>	<i>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</i>
<i>P302+P352</i>	<i>IF ON SKIN: Wash with plenty of water.</i>
<i>P403+P233</i>	<i>Store in a well-ventilated place. Keep container tightly closed.</i>
<i>P501</i>	<i>Dispose of contents/container in accordance with local/regional/national/international regulations.</i>
- **REGULATION (EC) No 1907/2006 ANNEX XVII** *Conditions of restriction: 3, 28, 29*
- **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.
- **Classification according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

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· **Abbreviations and acronyms:**

Flam. Liq. 2: Flammable liquids – Category 2
Self-heat. 2: Self-heating substances and mixtures – Category 2
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 2: Specific target organ toxicity (single exposure) – Category 2
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1
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

· **Sources**

SYSTEM OF CHEMICAL EXPOSURE HAZARD (SIRETOX). Available at: <<http://www.siretox.com.br>>.
Access: sep. 2015.
www.osha.gov
BR Petrobras Distribuidora. Material Safety Data Sheet, Hexano BR. Revision 6, 2015.

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

Including item descriptions.