

Safety Data Sheet acc. to OSHA HCS

Version number: 101

Revision date: 30/05/2023

Trade name: Vulk Cement

1 Identification of the product and of the company

1.1 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. For further information consult the technical data sheet.

Uses advised against: Remove all sources of ignition. Keep away from. Open flames, hot surfaces, hot surfaces, sparks and not smoke. This product must not be used for applications other than those recommended in this section.

1.2 Identification of the company

Manufacturer/Supplier: Vipal Rubber Corporation.

2601 NW 89 Court Miami – FL 33172 - U.S.A

E-mail: info@vipal-usa.com**Emergency telephone number:** +1 305 640 0330

2 Hazards identification

2.1 Classification of the substance or mixture

Globally Harmonized System (GHS).

2.2 Label elements

Hazard pictograms



GHS02 GHS07 GHS08 GHS09

Signal word: Danger.**Hazard-determining components of labelling:** Naphtha (petroleum), light straight-run.

Hazard statements:

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315+H320 Causes skin and eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

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

Safety Data Sheet
acc. to OSHA HCS**Version number:** 101**Revision date:** 30/05/2023**Trade name:** Vulk Cement

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.

P403+P235 Store in a well-ventilated place. Keep cool.

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

2.3 Other hazards: Not applicable.

3 Composition/information on ingredients

3.1 Chemical characterization: Mixture.

Dangerous components: Petroleum-naphtha-based adhesive, polymer and additives.

| CAS | Chemical name or technical name | Concentration (%) |
|--------------------------------------|--|-------------------|
| CAS: 64741-42-0 EINECS: 265-042-6 | Naphtha (petroleum), full-range straight-run | 70-100 |
| CAS: 1314-13-2 EINECS: 215-222-5 | zinc oxide | <1 |

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

4 First aid measures

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.

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.

4.2 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. In case of skin contact not rub the affected site.

Safety Data Sheet
acc. to OSHA HCS**Version number:** 101**Revision date:** 30/05/2023**Trade name:** Vulk Cement**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.

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.

5.3 Advice for firefighters: 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. 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. Use waterproof protection clothes, nitrile gloves, closed shoes, protection goggles, and breathing mask for organic vapors. Maintain unauthorized people away.

6.2 Environmental precautions: Stop leaking avoiding contact with the skin and with clothes. Isolate the area of the accident. Do not allow to enter sewers/ surface or ground water. Prevent seepage into sewage system, workpits and cellars.

6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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.

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. Avoid incompatible materials contact.

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:

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

Safety Data Sheet
acc. to OSHA HCS

Version number: 101

Revision date: 30/05/2023

Trade name: Vulk Cement

*Information about storage in one common storage facility: Store away from foodstuffs.***8 Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:**

| 1314-13-2 Zinc oxide | |
|----------------------|--|
| TLV | Short-term value: 10* mg/m ³ . Long-term value: 2* mg/m ³ . *as respirable fraction. |

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.**8.2 Engineering control measures:** Provide mechanical ventilation and exhaust system so to maintain the vapor concentration lower than the tolerance limit.**8.3 Personal protective equipment****Eye protection:** Tightly sealed goggles.**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 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).

Use waterproof clothes.

Recommended: Nitrile gloves

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.

Thermal Hazards: Not available.**9 Physical and chemical properties****Appearance (physical state, form e colour):** Viscous liquid, Black.**Odour and odour limit:** Characteristic.**pH:** Not determined.**Melting point/freezing point:** Not available.**Initial boiling point and temperature range:** 65 -125 °C (Nafta).**Flash point:** -35 °C (Nafta (closed cup)).

Safety Data Sheet
acc. to OSHA HCS**Version number:** 101**Revision date:** 30/05/2023**Trade name:** Vulk Cement**Evaporation rate:** Not available.**Flammability (solid, gas):** Highly flammable.**Lower/upper limit of flammability or explosiveness:** Not available.**Vapour pressure:** Not determined.**Vapour density:** Not available.**Relative density at 23 °C:** 0.70 – 0.74 g/cm³.**Solubility:** Insoluble (water).**Partition coefficient: n-octanol/water:** 4.85 log kow (Nafta).**Auto-ignition temperature:** Not available.**Decomposition temperature:** Not available.**Viscosity at 23 °C:** 420 – 520 cP.**9.2. Other information:** No further relevant information available.**10 Stability and reactivity****10.1 Reactivity:** May have reactions with incompatible materials.**10.2 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 oxidizers and acids.**10.6 Hazardous decomposition products:** A toxic gas mixture is formed upon combustion, chiefly containing CO₂ and CO.**11 Toxicological information****Acute toxicity:** Product not classified as acute toxic.**LD/LC50 values relevant for classification:****64741-42-0 - Naphtha (petroleum), full-range straight-run**

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

1314-13-2 - Zinc oxide

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

Skin corrosion/irritation: It can cause irritation, redness, and burning sensation.**Serious eye damage/irritation:** May cause eye irritation with tearing, pain and redness.

Safety Data Sheet
acc. to OSHA HCS**Version number:** 101**Revision date:** 30/05/2023**Trade name:** Vulk Cement

Respiratory or skin sensitization: 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: It 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

12.1 Ecotoxicity: Very toxic to aquatic life with long lasting effects.

Naphtha: EC50 (algae, 96h): 0.26 mg/L.

Zinc Oxide: LC50 (fish, 96h): 2246 mg/L.

12.2 Persistence and degradability: Due to the absence of data, it is expected that the product presents persistence and is not rapidly degraded.

12.3 Bioaccumulative potential: Naphtha: Log Kow: 4.85.

It is expected potential for bioaccumulation in aquatic animals.

Zinc Oxide: BCF: 3.

Log Kow: 1.53.

12.4 Mobility in soil: Undetermined.

12.5 Other adverse effects: No further relevant information available.

13 Disposal considerations

13.1 Waste treatment method

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

Product remains: Keep the product remains in its original packaging. Disposal should be carried out as established for the product.

Uncleaned packaging: 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.

Safety Data Sheet
*acc. to OSHA HCS***Version number:** 101**Revision date:** 30/05/2023**Trade name:** Vulk Cement**14 Transport information****Land transport, water transportation and air transport:***International Maritime Organization (IMO)**International Maritime Dangerous Goods Code (IMDG Code)**International Air Transport Association (IATA)**Dangerous Goods Regulation (DGR)***UN-Number:** UN1133**UN proper shipping name:** 1133 ADHESIVES, containing flammable liquid.**Transport hazard class(es):** 3 Flammable liquids.**Packing group:** II.**Marine pollutant:** Yes.**Limited quantities (LQ):** 5L**EMS:** F-E, S-D.**Environmental hazards:** Product contains environmentally hazardous substances: zinc oxide.**15 Regulatory information****Regulations***International Maritime Organization (IMO)**International Maritime Dangerous Goods Code (IMDG Code)**International Air Transport Association (IATA)**Dangerous Goods Regulation (DGR)***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.

References:

IUCLID: Disponível em: < <https://iuclid6.echa.europa.eu/> >.

Safety Data Sheet
*acc. to OSHA HCS***Version number:** 101**Revision date:** 30/05/2023**Trade name:** Vulk Cement

ECOTOX DATABASE: Disponível em: < <https://cfpub.epa.gov/ecotox/>>.

BR Petrobras Distribuidora. Material Safety Data Sheet, Solbrax 55/75. Revision date: 16/11/2018.