

SAFETY DATA SHEET

Product: Solvulk Fast Dry

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1 - IDENTIFICATION

GHS Product identifier: Solvulk Fast Dry
Other means of 480006, 480010

identification:

Recommended use of Recommended as Vulk Cement diluent.

the chemical:

Specific restrictions on This product should not be used for applications other than those recommended in this section.

For more information, consult the product's technical data sheet.

Supplier's details: BORRACHAS VIPAL S.A

Address: Rua Buarque de Macedo, 365, CEP: 95320-000 - Nova Prata - RS - Brasil.

Phone number: (54) 3242-3800 E-mail: vipal@vipal.com.br

Emergency phone

number:

(54) 3242-3800

2 - HAZARD IDENTIFICATION

Classification of the substance or mixture: Flammable Liquids - Category 2; Skin Corrosion/Irritation - Category 2; Reproductive Toxicity - Category 2;

Specific Target Organ Toxicity – Single Exposure - Category 3 - Narcotic; Hazardous to the Aquatic Environment - Acute Hazard - Category 2; Hazardous to the Aquatic Environment - Chronic Hazard - Category 2.

Classification system

adopted:

Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations.

GHS label elements, including precautionary statements

Pictograms:









Signal word: DANGER

Hazard statement(s): H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child. H411 Toxic to aquatic life with long lasting effects.

Precautionary PREVENTION

statement(s): P203 Obtain, read and follow all safety instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical, ventilating and lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.



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P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.

RESPONSE TO EMERGENCY:

P302 + P352 IF ON SKIN: Wash with plenty of water.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P318 IF exposed or concerned, get medical advice.

P319 Get medical help if you feel unwell.

P321 Specific treatment.

P332 + P317 If skin irritation occurs: Get medical help.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use carbon dioxide (CO₂), foam, water mist and powder to extinguish.

P391 Collect spillage.

STORAGE:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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

P405 Store locked up.

DISPOSITION:

P501 Dispose of contents and container in accordance with local regulations.

Other hazards which do not result in

The product has no other hazards.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE

classification:

Components contributing to the hazard:

Distillates (petroleum), c6-rich (CAS 93165-19-6): 56.78 - 85.18%.

4 - FIRST-AID MEASURES

Description of necessary first-aid measures

Inhalation: Remove victim to fresh air and keep in a position that does not obstruct breathing. If you feel unwell,

contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.

Wash exposed skin with sufficient amount of water to remove the product. Remove and isolate Skin:

contaminated clothing and shoes. In case of skin irritation: Consult a doctor. Bring this document.

Rinse carefully with water for several minutes. If wearing contact lenses, remove them if it is easy

and keep rinsing. If eye irritation persists: consult a doctor. Bring this document.

Ingestion: Wash the victim's mouth with plenty of water. Never give anything by mouth to an unconscious

person If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring

this document.

Most important

Causes skin irritation with redness, pain and dryness. May cause drowsiness or dizziness, may symptoms/effects, acute cause dizziness and nausea.

and delayed:

Eye:



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Indication of immediate medical attention and special treatment needed, if necessary: Avoid contact with the product when helping the victim. If necessary, symptomatic treatment should include, above all, supportive measures such as correction of hydro electrolytic and metabolic disorders and respiratory assistance. In case of skin contact, do not rub the affected area.

5 - FIRE-FIGHTING MEASURES

Extinguishing media: Appropriate: carbon dioxide (CO₂), foam, water mist and powder.

Inappropriate: water directly onto the burning material.

Specific hazards arising from the chemical:

Combustion of the material or its packaging can form irritating and toxic gases such as carbon monoxide and dioxide.

Very dangerous when exposed to excessive heat or other sources of ignition such as: sparks, open flames or flames from matches and cigarettes, welding operations, pilot lights and electric motors. May build up static charge by flow or agitation. Vapors from heated product can ignite by static discharge. Vapors are denser than air and tend to accumulate in low-lying or confined areas such as storm drains and basements. It can travel great distances causing the flame to retreat or new fires in

both open and confined environments. Containers may explode if heated.

Special protective actions for fire-fighters:

If the load is involved in fire, isolate and evacuate the area to a minimum radius of 800 meters. Wear positive pressure self-contained breathing apparatus (SCBA) and full protective clothing. Containers and tanks involved in the fire must be cooled with water mist.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Isolate leak from ignition sources. Keep unauthorized people away from the area. Stop the leak if it can be done without risk. Prevent sparks or flames. Do not smoke. Do not touch damaged containers or spilled product without wearing appropriate clothing. Avoid exposure to the product. Stay in a safe place, with the wind at your back. Use personal protective equipment as described in

section 8

For emergency responders:

Wear full PPE with safety glasses, safety gloves, suitable protective clothing and closed-toe shoes. In the event of a leak, where exposure is high, it is recommended to use an appropriate respiratory

Environmental precautions:

Prevent spilled product from reaching waterways and sewage systems.

Methods and materials for containment and cleaning up:

Use water mist to reduce vapor dispersion. Use natural or spill containment barriers. Collect spilled product and place in appropriate containers. Adsorb the remaining product with dry sand, earth, vermiculite, or any other inert material. Place the adsorbed product in appropriate containers and remove them to a safe place. Use non-sparking tools to collect the absorbed product. All equipment used in handling must be electrically grounded. For final disposal, proceed as per Section 13 of this document.

7 - HANDLING AND STORAGE

Precautions for safe handling

Precautions for safe handling:

Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoidvapors and mists formation. Handling the product can result in electrostatic charge buildup. All ignition sources must be extinguished from areas during use. Use proper grounding procedures. Use personal protective equipment as described in section 8.

General hygiene:

Wash hands and face thoroughly after handling and before eating, drinking, smoking, or using the toilet. Contaminated clothing should be changed and washed before reuse. Remove contaminated clothing and protective equipment before entering eating areas.



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Conditions for safe storage, including any incompatibilities

Technical measures for prevention of fire and explosion:

Keep away from heat, sparks, open flame, and hot surfaces. Do not smoke. Keep the container tightly closed. Ground the container vessel and product receiver during transfers. Only use non-sparking tools. Avoid the accumulation of electrostatic charges. Use explosion-proof electrical, ventilation, and lighting equipment.

Conditions for safe storage, including any incompatibilities:

Store in a dry, well-ventilated place away from sunlight. Keep the container closed. It is not necessary addition of stabilizers and antioxidants to ensure the durability.

Packaging compatibilities:

Similar to the original packaging.

Inadequate packaging materials:

There are not known unsuitable material.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure

The values below apply to workplaces.

limit:

OSHA - PEL - TWA: 1 ppm (29 CFR 1910.1028, Benzene; 29 CFR 1910.1000 Table Z-2) (CFR); OSHA - PEL - STEL: 5 ppm (29 CFR 1910.1028, Benzene; 29 CFR 1910.1000 Table Z-2) (CFR);

NIOSH - REL - TWA: 0.1 ppm (Ca) (AA);

NIOSH - REL - STEL: 1 ppm; ACGIH - TLV - TWA: 0.5 ppm (*); ACGIH - TLV - STEL: 2.5 ppm (*).

*: Also absorbed through the skin; Ca: Potential occupational carcinogen. AA: See NIOSH REL Appendix A; CFR: See mentioned item in OSHA CFR.

Biological limit:

- Benzene

ACGIH - BEI: Determinant: S-phenylmercapturic acid in urine. Sampling time: End of shift. Index: 25 µg/g creatinine. Notation: B. Determinant: t,t-muconic acid in urine. Sampling time: End of shift. Index: 500 µg/g creatinine. Rating: B.

B: The determinant may be present in biological specimens collected from subjects who have not been occupationally exposed, at a concentration which could affect the interpretation of the results. Such background concentrations are incorporated in the BEI value.

Other limits and values:

- Benzene:

Benzene does not have LT, but is the object of Annex 13-A, of NR15, where, for companies subject to the provisions of the Annex, the parameter VRT-MPT (average concentration of benzene in the air weighted by the time, for a working hours of eight hours, obtained in the breathing zone of workers, individually or from Homogeneous Exposure Groups - GHE, as defined in Normative Instruction No. 01). According to this Annex, the values established for the VRT-MPT are 1.0 ppm for the companies included in the Annex, with the exception of steel companies, and 2.5 ppm for the steel companies.

Appropriate engineering

controls:

A risk assessment is recommended to define the engineering control measures necessary to eliminate or minimize the risk. These measures help to reduce exposure to the product. Maintain atmospheric concentrations of the constituents of the material below occupational exposure limits

Individual protection measures, such as personal protective equipment (PPE)



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Eye/face protection: Fully enclosed protective goggles.

Skin protection: Impervious clothing or protective clothing chemically resistant to the product. Nitrile gloves.

Respiratory protection: Semifacial mask with filter for organic vapors.

Thermal hazards: It does not present thermal hazards.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Aspect: Liquid.

Color: Colorless.

Odour: Feature.

Melting point/freezing

-95 °C (-139 °F).

point:

Boiling point or initial 62 to 74 °C (143.6 to 165.2 °F) at 101.325 kPa.

boiling point and boiling

range:

Flammable. Flammability:

Lower and upper

explosion

Upper: 7.5 % and Lower: 1.1 %.

limit/flammability limit:

-35 °C (-31 °F) - Closed cup. Flash point:

Auto-ignition - Distillates (petroleum), c6-rich: 280 to 470 °C (536 to 878 °F). temperature:

Decomposition Not available.

temperature:

Not available. pH:

Kinematic viscosity: Not available.

Solubility(ies): Immiscible in water.

Partition coeficient n-

octanol/water (log value):

Not available.

17 kPa at 20 °C (68 °F). Vapour pressure:

Relative vapour density: 3 (air = 1).

Density and/or relative

density:

Relative density: 0.7 (water at 4 °C(39,2 °F) = 1).

Particle characteristics: Not applicable.

Other information: Dynamic viscosity: 0.45 cP (0.00045 Pa.s).

10 - STABILITY AND REACTIVITY

Reactivity: Reactivity is not to be expected under normal conditions of temperature and pressure.



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Revision: 00 Date: 07/04/2024 Pages: 6/9 Chemical stability: Stable under normal temperature and pressure conditions. Possibility of hazardous There are not known hazardous reactions with the material. reactions: Conditions to avoid: High temperatures. Ignition sources. Incompatible material: There are not known incompatible materials with the product. Hazardous No dangerous decomposition products are known. decomposition products:

11 - TOXICOLOGICAL INFORMATION

Acute toxicity: Product not classified as acute toxic.

ATEmix Vapours (4h): > 20 mg/L. ATEmix Oral: > 5000 mg/kg. ATEmix Dermal: > 5000 mg/kg.

Skin corrosion/irritation: Causes skin irritation with redness, pain and dryness.

Serious eye It is not expected to cause eye irritation.

damage/irritation:

Respiratory or skin

sensitization:

It is not expected to present respiratory or skin sensitization.

Germ cell mutagenicity: Not classified for germ cell mutagenicity.

This classification is due to the possibility of this product containing benzene in a concentration equal to 0.1%. However, if this value is lower, the product will not be classified as mutagenic.

Not classified for carcinogenicity. Carcinogenicity:

This classification is due to the possibility of this product containing benzene in a concentration equal to 0.1%. However, if this value is lower, the product will not be classified as carcinogenic.

Suspected of damaging fertility or the unborn child. Reproductive toxicity:

STOT - Single

exposure:

May cause drowsiness or dizziness, may cause dizziness and nausea.

STOT - Repeated

exposure:

It is not expected to exhibit specific target organ toxicity on repeated exposure.

Aspiration hazard: It is not expected to present an aspiration hazard.

12 - ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects. Toxicity:

Information regarding to:

Distillates (petroleum), c6-rich:

ErC₅₀ (Pseudokirchneriella subcapitata, 96 h): 3.1 mg/L;

EC₅₀ (Daphnia magna, 48 h): 4.5 mg/L; LC₅₀ (Pimephales promelas, 96 h): 8.2 mg/L.

Persistence and

degradability:

It is expected that the product presents persistence and it is not considered readily biodegradable.

Bioaccumulative

potential:

It is not expected to have a high bioaccumulative potential.

Mobility in soil:

Not determined.



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Other adverse effects: No other environmental effects known.

13 - DISPOSAL CONSIDERATIONS

Disposal methods

Must be disposed of as waste in compliance with local regulations. The treatment and disposal should be evaluated for each specific product.

Keep the product remains in its original and properly closed containers. Disposal should be performed as established for the product.

Road: UN - United Nations: Model Regulations:

Recommendations on the Transport of Dangerous Goods.

UN number: 1208

Proper shipping name: **HEXANES**

Primary risk class or

division:

Subsidiary risk class or

division:

NA

Packing group: Ш

Environmental hazards: The product is considered dangerous for the environment for land transport.

COTIF - Convention concerning International Carriage by Rail: Railway regulations:

Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods

by Rail

1208 UN number:

HEXANES Proper shipping name:

Primary risk class or

division:

Subsidiary risk class or

NA

3

division:

Ш Packing group:

Environmental hazards: The product is considered dangerous for the environment in rail transport.

IMO - International Maritime Organization: Sea:

• IMDG Code - International Maritime Dangerous Goods Code.

UN number: 1208

HEXANES Proper shipping name:

Primary risk class or

division:

Subsidiary risk class or

division:

NA

Packing group:

The product is considered a marine pollutant. Environmental hazards:



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Revision: 00 Date: 07/04/2024 Pages: 8/9 F-E,S-D EmS: Air: IATA - International Air Transport Association: · DGR - Dangerous Goods Regulation. UN number: 1208 Proper shipping name: **HEXANES** Primary risk class or 3 division: Subsidiary risk class or NA division: Ш Packing group: Environmental hazards: The product is considered dangerous for the environment for air transport. Special precautions for Not applicable. user: Maritime transport in Consult regulations: bulk according to IMO instruments: · International Maritime Organization: MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, consolidated edition. IMO, London, 2006; • International Maritime Organization: IBC code: International code for the construction and equipment of shipping carrying dangerous chemicals in bulk: With Standards and guidelines relevant to the code. IMO, London, 2007.

15 - REGULATORY INFORMATION

Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990.

TSCA: One component of this product is not listed on the TSCA.

16 - OTHER INFORMATION

This document was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other products, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

Change control:

Version	Manufacture date	Changes
00	07/04/2024	Elaboration

Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;

ATEmix - Acute Toxicity Estimate of the mixture;

BEI - Biological Exposure Index;



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CAS - Chemical Abstracts Service;

EC₅₀ - Effective concentration of substance that causes 50 % of the maximum response;

ErC₅₀ - Effective concentration that results in a 50% reduction in the growth rate;

LC₅₀ - Lethal Concentration 50%;

NIOSH - National Institute for Occupational Safety and Health;

OSHA - Occupational Safety & Health Administration;

PEL - Permissible Exposure Limit;

REL - Recommended Exposure Limit;

STEL - Short Term Exposure Limit;

TLV - Threshold Limit Value;

TWA - Time Weighted Average;

UN - United Nations.

Bibliographic references:

ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on the Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Cincinnati-USA, 2023.

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 10th rev. ed. New York and Geneva: United Nations, 2023.