

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

Printing date 08.09.2017

Version number 1000

Revision: 08.09.2017

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

- **1.1 Product identifier**
- **Trade name:** Vulk Acqua Solution Rendiplus SL600
- **Internal identification code:** 507031
- **Main recommended uses for the substance or product:**  
*It is indicated to retread tire processes, by mold cure or precure methods.  
For further information consult the technical data sheet.*
- **Uses advised against**  
*This product must not be used for applications other than those recommended in this section.  
Do not freeze*
- **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**  
*Skin Sens. 1 H317 May cause an allergic skin reaction.*

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- **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**



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- **Signal word** Warning
- **Hazard statements**  
*H317 May cause an allergic skin reaction.*
- **Precautionary statements**  
P202 *Do not handle until all safety precautions have been read and understood.*  
P280 *Wear protective gloves/protective clothing/eye protection/face protection.*  
P302+P352 *IF ON SKIN: Wash with plenty of water.*  
P333+P313 *If skin irritation or rash occurs: Get medical advice/attention.*  
P402+P404 *Store in a dry place. Store in a closed container.*  
P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

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- **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: 7704-34-9 EINECS: 231-722-6	sulphur, precipitated, sublimed or colloidal	Flam. Sol. 2, H228 Skin Irrit. 2, H315	1-5%
CAS: 1336-21-6 EINECS: 215-647-6	ammonia	Skin Corr. 1B, H314 Aquatic Acute 1, H400	<0.5%

· **Additional information:**

The product, in its final form, offers no danger.

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

**4 First aid measures**

- **Protection of the First Aid Provider:** If symptoms persist, seek medical treatment.
- **4.1 Description of first aid measures**
- **After inhalation:**  
If case of indisposition, contact the TOXICOLOGY INFORMATION CENTER or a doctor. Bring this MSDS.  
Lead the victim to fresh air, if the product suffers combustion forced to see a doctor.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **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:**  
Call for a doctor immediately.  
Rinse out mouth and then drink plenty of water.  
Never give anything by mouth to an unconscious person.  
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
May cause allergic reactions on the skin.  
May cause severe allergic reaction in case of contact with the eyes, skin or mucous membranes due to high pH.  
Ingestion causes irritation in the respiratory system and gastrointestinal disorders.  
Repeated or prolonged contact with the skin may cause irritation and/or dermatitis and sensitization for sensitive individuals.
- **4.3 Indication of any immediate medical attention and special treatment needed** Treat the symptoms.

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### **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.*  
*Non-inflammable product*
- **For safety reasons unsuitable extinguishing agents:** *Jet of water.*
- **5.2 Special hazards arising from the substance or mixture**  
*Hydrogen fluoride*  
*The combustion of the product or its packaging can cause irritating and toxic gases, like carbon monoxide and dioxide.*
- **5.3 Advice for firefighters**
- **Protective equipment:**  
*Self-contained breathing apparatus (SCBA), complete protective clothing, and leather gloves.*
- **Additional information**  
*Cool endangered receptacles with water spray.*  
*Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.*

### **6 Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**
- **For people who are not part of the emergency services:**  
*Avoid inhalation, contact with eyes and skin.*  
*Do not touch nor walk over spilt product.*
- **For people part of the emergency services:**  
*Maintain unauthorized people away.*  
*Use waterproof protection clothes, nitrile gloves, closed shoes, protection goggles, and breathing mask for organic vapors.*  
*Ensure adequate ventilation.*
- **6.2 Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*
- **6.3 Methods and material for containment and cleaning up:**  
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*
- **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 prolonged contact of the product with skin and eyes.*
- **Information about fire - and explosion protection:** *No special measures required.*
- **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**  
*Store in a cool, covered and ventilated, sheltered from sunlight, moisture and sources of ozone.*  
*Storing at temperatures between 0 °C and 40 °C is recommended.*

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- **Storage:**
- **Prevention of fire and explosions:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **7.3 Specific end use(s)** It is indicated to retread tire processes, by mold cure or precure methods.

**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:**

**7664-41-7 ammonia, anhydrous**

WEL	Short-term value: 25 mg/m <sup>3</sup> , 35 ppm
	Long-term value: 18 mg/m <sup>3</sup> , 25 ppm

· **Ingredients with biological limit values:** Non-biological indicators of exposure were established.

· **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:** Not required.

· **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

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:** Goggles recommended during refilling

· **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: Fluid

Colour: Black

· **Odour and odour limit:** Characteristic

· **pH:** 9-11

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· <b>Change in condition</b> Melting point/freezing point:	Not available.
Initial boiling point and temperature range:	100 °C
· <b>Flash point:</b>	Not applicable.
· <b>Flammability (solid, gas):</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not available.
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Lower/upper limit of flammability or explosiveness:</b> Lower:	Not applicable.
Upper:	Not applicable.
· <b>Vapour pressure:</b>	Not available.
· <b>Density:</b> Relative density at 20 °C	1.021
Vapour density	Not available.
Evaporation rate	Not available.
· <b>Solubility:</b> water:	Miscible
· <b>Partition coefficient: n-octanol/water:</b>	Not applicable.
· <b>Viscosity:</b> Dynamic:	Not available.
Kinematic:	Not available.
· <b>9.2 Other information</b>	No further relevant information available.

**10 Stability and reactivity**

- **10.1 Reactivity and chemical stability:** Stable in normal use conditions.
- **10.3 Possibility of hazardous reactions** Reacts with strong acids and oxidising agents.
- **10.4 Conditions to avoid** To avoid thermal decomposition, do not overheat.
- **10.5 Incompatible materials:** Strong oxidizers and acids.
- **10.6 Hazardous decomposition products:**  
 A toxic gas mixture is formed upon combustion, chiefly containing CO<sub>2</sub> and CO.  
 Nitrogen oxides (NO<sub>x</sub>)  
 Hydrogen fluoride

**11 Toxicological information**

- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:** Product not classified as acute toxic.
- **Skin corrosion/irritation:** Non-irritating
- **Serious eye damage/irritation:** No irritating effect.

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- **Respiratory or skin sensitisation:**  
 May cause an allergic skin reaction.
- **Germ cell mutagenicity:** Not classified.
- **Carcinogenicity:** Not classified.
- **Reproductive toxicity:** Not classified.
- **Toxicity for specific target organ-single exposure:** Not classified.
- **Toxicity for specific target organ-repeated exposure:** Not classified.
- **Aspiration hazard:** Not classified.

**12 Ecological information**

- **Ecotoxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information 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:**  
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
 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. Disposal should be carried out as established for the product.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

- |  |                 |
|--|-----------------|
| · <b>14.1 UN-Number</b>                    | Not classified. |
| · <b>14.2 UN proper shipping name</b>      | Not classified. |
| · <b>14.3 Transport hazard class(es)</b>   | Not classified. |
| · <b>14.4 Packing group</b>                | Not classified. |
| · <b>14.5 Environmental hazards:</b>       | Not applicable. |
| · <b>14.6 Special precautions for user</b> | Not applicable. |

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· <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>	Not applicable.
· <b>Excepted quantities (EQ)</b>	Not applicable.
· <b>Transport category</b>	Not applicable.
· <b>Tunnel restriction code</b>	Not applicable
· <b>Remarks:</b>	No dangerous good for transport.
· <b>IMDG</b>	Waterway: IMO - "International Maritime Organization" International Maritime Dangerous Goods Code (IMDG Code)
· <b>Remarks:</b>	Not dangerous good for transport
· <b>IATA</b>	Aerial: IATA - "International Air Transport Association" Dangerous Goods Regulation (DGR)
· <b>Remarks:</b>	Not dangerous good for transport
· <b>UN "Model Regulation":</b>	Not classified.

**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**



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- **Signal word** Warning
- **Hazard statements**  
H317 May cause an allergic skin reaction.
- **Precautionary statements**  
P202 Do not handle until all safety precautions have been read and understood.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P402+P404 Store in a dry place. Store in a closed container.  
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.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

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· **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.*

· **Abbreviations and acronyms:**

*Flam. Sol. 2: Flammable solids – Category 2*

*Skin Corr. 1B: Skin corrosion/irritation – Category 1B*

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

*Skin Sens. 1: Skin sensitisation – Category 1*

*Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic 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)*

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