



Manufactured by: HARPO spa – **Rialto** division 34123 Trieste - Italy
Tech. Sheet N°: 45B/F/RI
Product name: **RIALTO CARSO SILOSSANICO 1 e 2**
Revision nr. 6 dated: 01.10.2008

01. IDENTIFICATION OF THE PREPARATION AND THE COMPANY

1.1 Identification of the substance or preparation:

Product name: Rialto Carso silossanico 1 e 2.

1.2 Use of the substance/preparation:

Intended use: Rialto Carso silossanico is a siloxane coating, ideal to give a special decorative effect, a high water vapour permeability and water repellency to walls.

Chemical name and synonym: High built coating based on siloxanes, copolymer emulsion resins and sands.

1.3 Company Identification:

Name: HARPO spa.

Full address: Via Torino, 34

34123 - Trieste, Italy,

tel. +39 040 3186611, fax +39 0403186666

E-mail address of the competent person responsible for the Safety Data Sheet: rialto@rialto-colors.com (rif. Dr. Renzi – technical manager)

Product distribution by: Harpo spa

1.4 Telephone number for urgent inquiries: + 39 040 2397211 (timetable: 8.00 – 16.30)

02. HAZARD IDENTIFICATION

Substance/Preparation Classification.

This preparation is dangerous under 67/548/EEC and 1999/45/EC regulations and subsequent amendments (directive 2006/8/EC). This compound requires a safety data sheet according to the regulation 1907/2006 and the directive 2006/8/EC and subsequent amendments. Further information on health and/or environmental hazards can be found in sections 11 and 12 of this sheet.

Danger Symbol: -

Phrases R: 52/53

Danger identification.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

03. COMPOSITION/INFORMATION ON INGREDIENTS

| Name | Concentr.(C) | Classification |
|---|-------------------|----------------|
| Titanium dioxide | 4 – 4,5 % | - |
| N°Cas 13463-67-7 | | |
| N°CE 236-675-5 | | |
| Substance with a community workplace exposure limit | | |
| Calcium carbonate | 65 – 70 % | - |
| N°Cas 1317-65-3 | | |
| N°CE 207-439-9 | | |
| Substance with a community workplace exposure limit | | |
| Propylen glycol | | - |
| N°Cas 57-55-6 | | |
| N°CE 200-338-0 | 1,0 – 1,5 % | |
| Substance with a community workplace exposure limit | | |
| Terbutryn | 0,0015 – 0,0025 % | N, R50/53 |
| Cas No 886-50-0 | | |
| CE No 212-950-5 | | |
| Zinc pyrithione | 0,0015 – 0,0020 % | T, R22, R23 |
| Cas No 13463-41-7 | | Xi R38, 41 |

MATERIAL SAFETY DATA SHEET - according to european directive 2006/8/EC and Regulation n. 1907/2006



Manufactured by:
Tech. Sheet N°:
Product name:
Revision nr. 6 dated:

HARPO spa – **Rialto** division 34123 Trieste - Italy
45B/F/RI
RIALTO CARSO SILOSSANICO 1 e 2
01.10.2008

| | | |
|-----------------------------|-------------------|-----------------|
| CE No 236-671-3 | | N R50 |
| Zinc oxide | 0,009 - 0,0095 % | N R50 |
| Cas No 1314-13-2 | | |
| CE No 215-222-5 | | |
| 2-octyl-2H-isothiazol-3-one | 0,0007 - 0,0009 % | N R50/53, C R34 |
| Cas No 26530-20-1 | | T R23/24, |
| CE No 247-761-7 | | Xn R22, Xi R43 |

The complete text of – R – phrases is specified in section 16.

04. **FIRST – AID MEASURES**

EYES: Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.

SKIN: Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists seek medical attention. Wash contaminated clothing before using them.

INHALATION: Remove to fresh air. If breathing is irregular seek medical advice.

INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.



In all cases of doubt or if symptoms persist, seek medical advice. Never give anything by mouth to an unconscious person.

05. **FIRE – FIGHTING MEASURES**

Allow containers to cool in order to avoid product decomposition and generation of substances which might injure the health and be dangerous for safety reasons. Wear the fire equipment all the time.

06. **ACCIDENTAL RELEASE MEASURES**

Extinguish the sources of ignition or heat; cover the spillage with inert absorbent material. Collect as far as possible the resulting mass and discard the remainder by spraying water, if not contraindicated. For information on environmental and health risks, protection of the respiratory airways, ventilation and individual protective measures refer to the other sections of this sheet.

07. **HANDLING AND STORAGE**

Make sure that equipment is available for cooling the vessels, to prevent the danger of overpressure and overheating in the event of fire in the vicinity. Refer to the other sections of this data sheet for information relating to health and environmental risks.

08. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 Exposure limit values:

Calcium carbonate

- TLV TWA 10 mg/m³ ACGIH

Propylen glycol

- TLV OEL (IRL) 10 mg/m³ ACGIH

- TLV RV (LT) 7 mg/m³ ACGIH

- TLV WEL (UK) 150 mg/m³ ACGIH

Titanium dioxide

- TLV TWA 10 mg/m³ ACGIH

- The data refer to the substances and not to the mixture.

MATERIAL SAFETY DATA SHEET - according to european directive 2006/8/EC
and Regulation n. 1907/2006



Manufactured by:
Tech. Sheet N°:
Product name:
Revision nr. 6 dated:

HARPO spa – **Rialto** division 34123 Trieste - Italy
45B/F/RI
RIALTO CARSO SILOSSANICO 1 e 2
01.10.2008

8.2 Exposure controls:

In order to minimize exposure as far as possible, it is strongly recommended to use adequate individual protective measures such as: masks suitable for the product, goggles, gloves and overalls.



Do not eat, drink or smoke while handling it. Accurately wash the hands with soap and water before meals and at the end of the work shift.

09. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|--------------------|
| Odour | Slight |
| Physical appearance | Coloured paste |
| Solubility in solvents | Partially miscible |
| Solubility in water | Miscible |
| Volatile substances % by volume (solvents) | 1,00 % |
| Viscosity | 18.000 ± 500 mPas |
| Vapour density | 1 |
| Evaporation speed | < 1 |
| Comburent properties | N.A. |
| Partition coefficient: n-octanol/water | N.D. |
| pH | 8,20 ± 0,20 |
| Boiling point | > 150°C |
| Flash point | N.A. |
| Explosive properties | N.A. |
| Vapour pressure | N.D. |
| Specific gravity | 1,70 ± 0,20 Kg/l |
| Solid content (by weight) | 80,00 ± 2,00% |
| VOC (Directive 2004/42/EC): | < 3 % - 35 g/l |
| VOC (volatile carbon): | < 2 % - 24,95 g/l |

10. STABILITY AND REACTIVITY

The product is stable in normal conditions of use and storage. In the event of thermal decomposition or fire, vapours potentially dangerous to health may be released.

Propylene glycol: it is hygroscopic, stable at normal conditions; at high temperatures, it tends to oxidize yielding propionaldehyde as well as lactic and acetic acid. Calcium carbonate: avoid contact with acids.

11. TOXICOLOGICAL INFORMATION

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled carefully according to good industrial practices. This compound may have slight health effects on sensitive people, by inhalation and/or cutaneous absorption and/or contact with eyes and/or ingestion.

PROPYLEN GLYCOL: oral LD50 (mg/kg) 20800 (RAT) ; dermal LD50 (mg/kg) 20800 (RAT)

ZINC PYRITHIONE: LD50 orale (mg/kg) 774 mg/kg (ratto), LD50 cutaneo > 2000 mg/kg (ratto)

2-OTTIL-2H-ISOTIAZOL-3-ONE: orale LD50 > 500 mg/kg (ratto), LD50 cutaneo > 900 mg/kg (ratto), per inalazione LC50/4h 0,27 mg/l (ratto)



Manufactured by: HARPO spa – **Rialto** division 34123 Trieste - Italy
Tech. Sheet N°: 45B/F/RI
Product name: **RIALTO CARSO SILOSSANICO 1 e 2**
Revision nr. 6 dated: 01.10.2008

12. ECOLOGICAL INFORMATION

Use this product according to good working practices. Avoid litter. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

13. DISPOSAL CONSIDERATIONS

Consider the possibility of burning the product in a suitable incinerator. Acid or basic products must always be neutralized before undergoing any treatment, including biological treatment whenever feasible. If the waste is solid, it can be disposed of in a landfill.

14. TRANSPORT INFORMATIONS

This substance is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

15. REGULATORY INFORMATION

Warning symbols: None

Hazard sentences (R): R52/53 – Harmful to aquatic organisms, may cause long-term adverse effect in the aquatic environment.

Caution recommendations (S): None

This product is not subject to hazard labelling under the 67/548/EEC and 1999/45/EC directives and following amendments and adjustments (directive 2006/8/EC).

DIRECTIVE 2004/42/EC

Paint for exterior walls of mineral substrate (WB)

EU limit value for this product (A/c): 75 g/l (2007); 40 g/l (2010)

This product contains at maximum: **38 g/l** of VOC

16. FURTHER INFORMATIONS

Text of -R- phrases quoted in section 2 of the sheet.

| | |
|--------|---|
| R22 | HARMFUL IF SWALLOWED. |
| R23 | TOXIC BY INHALATION. |
| R23/24 | TOXIC BY INHALATION AND IN CONTACT WITH SKIN. |
| R34 | CAUSE BURNS. |
| R38 | IRRITATING TO SKIN. |
| R41 | RISK OF SERIOUS DAMAGE TO EYES. |
| R50 | VERY TOXIC TO AQUATIC ORGANISMS. |
| R50/53 | VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECT IN THE AQUATIC ENVIRONMENT. |

BIBLIOGRAFIA GENERALE:

1. Direttiva 1999/45/CE e successive modifiche (direttiva 2006/8/CE)
2. Direttiva 67/548/CEE e successive modifiche ed adeguamenti (XXIX adeguamento tecnico)
3. Regolamento (CE) 1907/2006 del Parlamento Europeo (REACH)
4. The Merck Index. Ed. 10
5. Handling Chemical Safety
6. Niosh - Registry of Toxic Effects of Chemical Substances
7. INRS - Fiche Toxicologique
8. Patty - Industrial Hygiene and Toxicology
9. N.I. Sax - Dangerous properties of Industrial Materials-7 Ed., 1989

MATERIAL SAFETY DATA SHEET - according to european directive 2006/8/EC
and Regulation n. 1907/2006



Manufactured by:
Tech. Sheet N°:
Product name:
Revision nr. 6 dated:

HARPO spa – **Rialto** division 34123 Trieste - Italy
45B/F/RI
RIALTO CARSO SILOSSANICO 1 e 2
01.10.2008

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Changes to previous review
The following sections were modified:
01 / 02 / 03 / 04 / 08 / 09 / 11 / 12 / 15 / 16