



Manufactured by: HARPO spa – **Rialto** division 34123 Trieste - Italy  
Tech. Sheet N°: 79/S/RI  
Product name: **RIALTO SOLUTION**  
Revision nr. 4 date: 01.10.08

**01. IDENTIFICATION OF THE PREPARATION AND THE COMPANY**

**1.1 Identification of the substance or preparation:**

**Product name:** Rialto Solution.

**1.2 Use of the substance/preparation:**

**Intended use:** Permeable and protective coating for interiors and exteriors.  
**Chemical name and synonym:** Resin based quartz finishing coating which acts as binder, different – sized hard aggregates such as mica, quartz and granite, selected pigments, special additives and a broad – spectrum fungicide – bactericide.

**1.3 Company Identification:**

**Name:** HARPO spa.

**Full address:** Via Torino, 34

34123 - Trieste, Italy,

**District and Country:** 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)

**Data Sheet:**

**Product distribution by:** Harpo spa

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

**02. HAZARD IDENTIFICATION**

**2.1 Substance/Preparation Classification.**

This preparation is dangerous under 67/548/EEC and 1999/45/EC regulations and subsequent amendments (XXX ATP). 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

**2.2 Danger identification.**

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

**03. COMPOSITION/INFORMATION ON INGREDIENTS**

Name	Concentration (C)	Classification
Calcium carbonate Cas No 471-34-1 CE No 207-439-9 Substance with a community workplace exposure limit	62 – 66 %	-
5-chloro-2-methyl-2H-isothiazol-3-one /2-methyl-2H-isothiazol-3-one (3 :1) N°Cas 55965-84-9 N°Index 613-167-00-5	0,0010 – 0,0013%	T R23/24/25 C R 34 Xi R 43 N R 50/53
Terbutryn Cas No 886-50-0 CE No 212-950-5	0,018- 0,02 %	N, R50/53
Zinc pyrithione Cas No 13463-41-7 CE No 236-671-3	0,011 - 0,015 %	T, R22, R23 Xi R38, 41 N R50 Xi R43 N R50/53

**MATERIAL SAFETY DATA SHEET** - according to european directive 2006/8/EC and regulation (EC) 1907/2006



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2-octyl-2H-isothiazol-3-one  
Cas No 26530-20-1  
CE No 247-761-7

0,011 - 0,014 %

N R50/53  
C R34  
T R23/24  
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**

Limit leakages with earth or inert material. Remove most of the product and then rinse the involved

**06. ACCIDENTAL RELEASE MEASURES**

Collect the largest amount of the solid product with mechanical tools. Avoid the formation of dust spraying the product with moist cleansing agents or water.

**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, magnesium carbonate  
- TLV TWA

10

mg/m<sup>3</sup>

ACGIH

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

**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

Stucco

Solubility in solvents

Partially miscible



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Solubility in water	Miscible
Volatile substances % by volume (solvents)	1%
Hazardous reactions	N/A
Viscosity	35.000 ± 3.000 mPas
Vapour density	1
Evaporation speed	< 1
Comburent properties	N.A.
Partition coefficient: n-octanol/water	N.A.
pH	8,00 ± 0,50
Boiling point	> 150 °C
Flash point	N.A.
Explosive properties	N.A.
Vapour pressure	N.A.
Specific gravity	1,600 ± 0,05 Kg/l
Solid content (by weight)	70,00 ± 1,00 %
VOC (Directive 2004/42/EC) :	< 2 % - 20 g/l
VOC (volatile carbon) :	1 % - 5 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.

CALCIUM CARBONATE: oral LD50 (mg/kg) 6450 (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)

## 12. ECOLOGICAL INFORMATION

This product may cause functional disorders or morphological mutations after repeated or prolonged exposure by inhalation of a quantity of 0.25 mg/l/6h/day or lower.

TERBUTRYN: EC50/48h 7,1 MG/L (Daphnia magna), IC50/72h 0,067 mg/l (Selenastrum capricornutum), LC50/96h 1,8 mg/l (Rasbora heteromorpha).

Zinc pyrithione: EC50/48h 0,05 MG/L (Daphnia magna), IC50/72h 0,067 mg/l (Selenastrum capricornutum), LC50/96h 0,06 mg/l (Oncorhynchus mykiss).

2-octyl-2H-isothiazol-3-one: EC50/48h 0,1MG/L (Daphnia magna), IC50/72h 0,084g/l (Selenastrum capricornutum), LC50/96h 0,03mg/l (Oncorhynchus mykiss).

Zinc oxide: IC50/72h 0,17l (Selenastrum capricornutum)

MIT E CIT (3:1)

EC50 (48h): 0,12 mg/l DAPHNIA MAGNA

LC50 (96h): 0,22 mg/l Oncorhynchus mykiss



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### 13. DISPOSAL CONSIDERATIONS

Consider the possibility of burning the product in a suitable incenerator. 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 and regulation n. 1907/EC).

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/CE regulation is respected.

#### **DIRECTIVE 2004/42/EC**

**Paints for interior glossy walls and ceilings (WB) (gloss > 25@60°)**

EU limit value (**A/b**): 150 g/l (2007); 100 g/l (2010)

This product contains at maximum: **20 g/l** of VOC

### 16. FURTHER INFORMATIONS

Text of -R- phrases quoted in section 3 of the sheet.

R22	HARMFUL IF SWALLOWED.
R23	TOXIC BY INHALATION.
R23/24/25	TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
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.
R23/24	TOXIC BY INHALATION AND IN CONTACT WITH SKIN.
R34	CAUSES BURNS.
R43	MAY CAUSE SENSITIZATION BY SKIN CONTACT.

#### GENERAL BIBLIOGRAPHY

1. Regulation 1999/45/CE and following amendments;
2. Regulation 67/548/CEE and following amendments and adjustments (technical adjustment XXVIII);
3. Regulation 91/155/CEE and following amendments;
4. The Merck Index. - 10th Edition;
5. Handling Chemical Safety;
6. Niosh - Registry of Toxic Effects of Chemical Substances;
7. INRS - Fiche Toxicologique (toxicological sheet);
8. Patty - Industrial Hygiene and Toxicology;
9. N.I. Sax-Dangerous properties of Industrial Materials-7, 1989 Edition;

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**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/ 15/ 16