

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



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

HARPO spa – **Rialto** division 34123 Trieste - Italy
38/P/RI
RIALTO ZIP
01.10.2008

01. IDENTIFICATION OF THE PREPARATION AND THE COMPANY

1.1 Identification of the substance or preparation:

Product name: Rialto Zip.

1.2 Use of the substance/preparation:

Intended use: High resistant quartz permeable and protective coating for interiors and exteriors.

Chemical name and synonym: Copolymer resin resistant to alkalis, hard aggregates such as quartz, mica and silica, selected pigments and special additives.

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)

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 (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: Xn

Phrases R: 43 - 48/20 - 52/53

Danger identification.

May cause sensitisation by skin contact.

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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

03. COMPOSITION/INFORMATION ON INGREDIENTS

Denominazione	Concentrazione (C)	Classificazione
Calcium and magnesium carbonate N°Cas 16389-88-1 N°CE 240-440-2 Substance with a community workplace exposure limit Mica	5,0 – 10,0 %	
N°Cas 12001-26-2 Substance with a community workplace exposure limit	1,0 – 3,0 %	
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	0,0015 – 0,06%	T R23/24/25 C R 34 Xi R 43 N R 50/53 Xn R48/20
Quartz Cas No 14808-60-7	23,00 - 28,00 %	

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CE No 238-878-4

Chlorite 1,00 – 3,00 %

Cas No 1318-59-8

CE No 215-285-9

Substance with a community workplace exposure limit

Terbutryn 0,008 – 0,009 %

N, R50/53

Cas No 886-50-0

CE No 212-950-5

Zinc pyrithione 0,008 – 0,009 %

T, R22, R23

Cas No 13463-41-7

CE No 236-671-3

Xi R38, 41

N R50

Zinc oxide 0,040 - 0,050 %

N R50

Cas No 1314-13-2

CE No 215-222-5

2-octyl-2H-isothiazolone 0,003 - 0,004 %

N R50/53, C R34

Cas No 26530-20-1

CE No 247-761-7

Index No 613-112-00-5

T R23/24,

Xn R22, Xi R43

Titanium dioxide 8,0 – 12,0 %

-

N°Cas 13463-67-7

N°CE 236-675-5

Substance with a community workplace exposure limit

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**

Limit leakage with earth or inert material. Remove most of the product and then rinse the involved area by jet of water.

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07. HANDLING AND STORAGE

Store in a wellventilated place keeping the containers closed when not used. Do not smoke while handling. Keep far away from sources of heat, naked flames and sparks and other sources of ignition; do not spray in the vicinity of flames or incandescent materials.

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.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values:

Calcium, magnesium carbonate			
- TLV TWA	10	mg/m ³	ACGIH
Mica			
- TLV TWA	0,1	mg/m ³	ACGIH
Quartz			
- TLV TWA	0,1	mg/m ³	ACGIH
Talc			
- TLV TWA	10	mg/m ³	ACGIH
Chlorite			
- TLV TWA	0,1	mg/m ³	ACGIH

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

8.2 Exposure controls:

Follow the good industrial hygiene practices adopting suitable individual protective measures such as gloves and overalls.



Do not eat or smoke while handling the product. Wash hands before eating and at the end of the work shift. Periodic health controls are recommended at the discretion of the doctor.

09. PHYSICAL AND CHEMICAL PROPERTIES

Odour	Slight
Physical appearance	Creamy
Solubility in solvents	Partially miscible
Solubility in water	Miscible
Volatile substances % by volume (solvents)	0,5 %
Hazardous reactions	N/A
Viscosity	2.000 ± 200 mPas
Vapour density	1
Evaporation speed	< 1
Comburent properties	N.A.
Partition coefficient: n-octanol/water	N.A.
pH	8,00 ± 0,20
Boiling point	> 150 °C
Flash point	N.A.
Explosive properties	N.A.
Vapour pressure	N.A.
Specific gravity	1,45 ± 0,02 Kg/l
Solid content (by weight)	59,50 ± 1,00 %
VOC (directive 2004/42/CE)	< 1,5 % - 20 g/l

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VOC (volatile carbon) < 1,0 % - 10 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, vapors 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

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurves, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase. 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.

CALCIUM AND MAGNESIUM CARBONATE: LD50 oral (mg/kg) 6450 (rat)

TITANIUM DIOXIDE: oral LD50 (mg/kg) > 10000 (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

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.

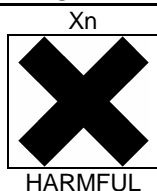
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15. REGULATORY INFORMATION



- R43 MAY CAUSE SENSITIZATION BY SKIN CONTACT.
R48/20 HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION.
R52/53 HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECT IN THE AQUATIC ENVIRONMENT.
S2 KEEP OUT OF REACH OF CHILDREN.
S 9 KEEP CONTAINER IN A WELL-VENTILATED PLACE.
S13 KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.
S22 DO NOT BREATHE DUST
S24 AVOID CONTACT WITH SKIN.
S37 IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT.
S38 WEAR SUITABLE GLOVES.

Contains:

Crystalline silica, terbutryn and 5-chloro-2-methyl-2H-isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1)

Danger labelling under regulations 67/548/CEE and 1999/45/CE and following amendments and adjustments (XXX ATP).

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 matt walls and ceilings (WB) (gloss ≤ 25@60°)

EU limit value (**A/a**): 75 g/l (2007); 30 g/l (2010)

This product contains at maximum: **25 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.
R23/24/25 TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
R34 CAUSES BURNS.
R38 IRRITATING TO SKIN.
R41 RISK OF SERIOUS DAMAGE TO EYES.
R43 MAY CAUSE SENSITIZATION BY SKIN CONTACT.
HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE
R48/20 THROUGH INHALATION.
R50 VERY TOXIC TO AQUATIC ORGANISM.
R50/53 VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECT IN THE AQUATIC ENVIRONMENT

GENERAL BIBLIOGRAPHY

1. Regulation 1999/45/CE and following amendments (directive 2006/8/CE);
2. Regulation 67/548/CEE and following amendments and adjustments (technical adjustment XXVIII);
3. Regulation n. 1907/EC.
4. Regulation 91/155/CEE and following amendments;
5. The Merck Index. - 10th Edition;

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6. Handling Chemical Safety;
7. Niosh - Registry of Toxic Effects of Chemical Substances;
8. INRS - Fiche Toxicologique (toxicological sheet);
9. Patty - Industrial Hygiene and Toxicology;
10. N.I. Sax-Dangerous properties of Industrial Materials-7, 1989 Edition;

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 / 10 / 11 / 12 / 15 / 16