

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



Manufactured by: HARPO spa – **Rialto** division 34123 Trieste - Italy
Tech. Sheet N°: 21/P/RI
Product name: **RIALTO UNION**
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 Union.

1.2 Use of the substance/preparation:

Intended use: Satined acrylic coating for interiors and exteriors.
Chemical name and synonym: Terpolymer resin which acts as binder, pigments and selected mineral aggregates, 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. Renni – 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: -

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	Concentration (C)	Classification
Calcium and magnesium carbonate N°Cas 16389-88-1 N°CE 240-440-2 Substance with a community workplace exposure limit	5 – 7 %	-
Propylen glycol N°Cas 57-55-6 N°CE 200-338-0 Substance with a community workplace exposure limit	2,0 – 4,0 %	
Terbutryn Cas No 886-50-0 CE No 212-950-5	0,008 – 0,009 %	N, R50/53
Zinc pyrithione Cas No 13463-41-7 CE No 236-671-3	0,008 – 0,0085 %	T, R22, R23 Xi R38, 41 N R50
Zinc oxide Cas No 1314-13-2 CE No 215-222-5	0,040 0,045 %	N R50
2-octyl-2H-isothiazol-3-one Cas No 26530-20-1	0,0035 - 0,0040 %	N R50 C, R34, T R23/24

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CE No 247-761-7		Xn R22, Xi R43
Diatomaceous earth	1,0 – 2,0 %	Xn R20, R48
N°Cas 68855-54-9		
Titanium dioxide	18,0 – 19,0 %	-
Cas No 13463-67-7		
CE No 236-675-5		
5-chloro-2-methyl-2H-isothiazol-3-one /2-methyl-2H-isothiazol-3-one (3 :1)	0,0007 – 0,0009%	T R23/24/25
N°Cas 55965-84-9		C R 34
N°Index 613-167-00-5		Xi R 43
		N R 50/53

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

Calcium carbonate 38– 42 %

N°Cas 1317-65-3

N°CE 207-439-9

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.
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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.

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
Propylen glicol			
TLV OEL (IRL)	10	mg/m ³	TWA/8h
TLV RV (LT)	7	mg/m ³	TWA/8h

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Titanium dioxide
- TLV TWA 10 mg/m3 ACGIH

- The data refer to the substance 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)	3 % max
Hazardous reactions	N/A
Viscosity	4.000 ± 200 mPas
Vapour density	1
Evaporation speed	< 1
Comburent properties	N.A.
Partition coefficient: n-octanol/water	N.A.
pH	7,50 ± 0,50
Boiling point	> 150 °C
Flash point	N.A.
Explosive properties	N.A.
Vapour pressure	N.A.
Specific gravity	1,25 ± 0,02 Kg/l
Solid content (by weight)	47,00 ± 0,50 %
VOC (Directive 2004/42/EC):	< 4 % - 45 g/l
VOC (volatile carbon):	< 2 % - 20 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)

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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

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/CE

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: **45 g/l** of VOC

16. FURTHER INFORMATIONS

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

R20	HARMFUL BY INHALATION.
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.
R48	RISK OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE.
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. Directive 2006/8/CE
2. Regulation 1999/45/CE and following amendments (technical adjustment XXX);
3. Regulation 67/548/CEE and following amendments and adjustments (technical adjustment XXVIII);
4. Regulation 91/155/CEE and following amendments;
5. Regulation (EC) 1907/2006 and subsequent amendments.
6. The Merck Index. - 10th Edition;
7. Handling Chemical Safety;

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- 8. Niosh - Registry of Toxic Effects of Chemical Substances;
- 9. INRS - Fiche Toxicologique (toxicological sheet);
- 10. Patty - Industrial Hygiene and Toxicology;
- 11. 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 / 11 / 12 / 15 / 16