

MATERIAL SAFETY DATA SHEET -according to european directive 2006/8/EC
and Regulation n. 1907/2006Manufactured by:
Tech. Sheet N°:
Product name:
Revision nr. 0 dated:HARPO spa – **Rialto** division 34123 Trieste - Italy
81/P/RI
RIALTO DOMOSIL FOTOCATALITICO
01.10.2008**01. IDENTIFICATION OF THE PREPARATION AND THE COMPANY****1.1 Identification of the substance or preparation:****Product name:** Rialto Domosil fotocatalitico.**1.2 Use of the substance/preparation:****Intended use:**

This product is ideal for guaranteeing permanent protection against the weathering effects of water and acid rain, while still allowing walls to breathe. It is an opaque paint with a velvet effect and it gives to the walls anti-aging property with its self-cleaning abilities.

Chemical name and synonym:

Emulsion paint based on modified siloxane resins, sand, pigments and photocatalytic substances.

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 (Directive 2006/8/EC and regulation n. 1907/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

Denominazione	Concentrazione (C)	Classificazione
Calcium and magnesium carbonate N°Cas 16389-88-1 N°CE 240-440-2	18,00 – 25,00 %	-
Substance with a community workplace exposure limit		
Quartz N°Cas 14808-60-7	1,0 – 2,0 %	R48/20
Terbutryn Cas No 886-50-0 CE No 212-950-5	0,0025 – 0,0035 %	N, R50/53
Zinc pyrrithione Cas No 13463-41-7 CE No 236-671-3	0,0025 – 0,0030 %	T, R22, R23 Xi R38, 41 N R50
Zinc oxide Cas No 1314-13-2 CE No 215-222-5	0,010 - 0,015 %	N R50

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2-octyl-2H-isothiazol-3-one Cas No 26530-20-1 CE No 247-761-7	0,0011 - 0,0015 %	N R50/53 C R34, T R23/24 Xn R22, Xi R43
Diatomaceous earth N°Cas 68855-54-9	4,00 – 6,00 %	Xn R20 Xn R48
Titanium dioxide Cas No 13463-37-7 CE No 236-675-5	15,00 – 18,00 %	-
Mica Cas No 12001-26-2	1,00 – 2,00 %	-
Substance with a community workplace exposure limit Chlorite Cas No 1318-59-8 CE No 215-285-9	1,00 – 2,00 %	-
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

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

Store in a well ventilated 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
Chlorite - TLV TWA	0,1	mg/m ³	ACGIH

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Titanium dioxide			
- TLV TWA	10	mg/m ³	ACGIH
Quartz			
- TLV TWA	0,1	mg/m ³	ACGIH

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

8.2 Exposure controls:

Adopt the closed circuit, if possible. If lacking, in order to avoid exposure and prevent its possible effects, even long-term, it is necessary to use adequate individual protective measures such as: masks, safety goggles, impermeable gloves and overalls, resistant to the product:



Ensure that all the operators follow the recommended precautions. Attach a copy to the containers in which the product may be transferred and do not use the product if the working conditions do not correspond to the recommended precautions; avoid contact with the eyes and skin and prolonged breathing of the vapours; store the container sealed when not being used. Do not eat, drink or smoke while handling it. Accurately wash the hands with soap and water before meals and take a shower at the end of the work shift. Working clothes should be washed separately and stored in a separate place. In order to prevent long-term effects, periodic health controls should be carried out even if not established by the Law, including supplementary examinations which are deemed necessary according to the discretion of the occupational physician.

09. PHYSICAL AND CHEMICAL PROPERTIES

Odor	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	7.500 ± 1.000 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	1,42 ± 0,03 Kg/l
Solid content (by weight)	59,00 ± 1,00 %
VOC (Directive 2004/42/EC):	< 3 % - 35 g/l
VOC (volatile carbon):	< 3 % - 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, vapors potentially dangerous to health may be released. Propylene glycol: it is hygroscopic, stable at



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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)

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 AND REGULATION N. 1907/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: **35 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	TOXIC BY INHALATION AND IN CONTACT WITH SKIN.
R38	IRRITATING TO SKIN.
R41	RISK OF SERIOUS DAMAGE TO EYES.
R43	MAY CAUSE SENSITIZATION BY SKIN CONTACT.
R48	DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE.
R48/20	HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION.
R50	VERY TOXIC TO AQUATIC ORGANISMS.
R50/53	VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECT IN THE AQUATIC ENVIRONMENT.

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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

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