

MATERIAL SAFETY DATA SHEET - according to european directive 1999/45/EC

Manufactured by: HARPO spa – **Rialto** division 34123 Trieste (Italy)
Tech. Sheet N°: 60/P/RI
Product name: **RIALTO ANTISALE**
Revision nr. 3 dated: 06.11.04



01. IDENTIFICATION OF THE PREPARATION AND THE COMPANY

Product name: **Rialto Antisale.**
Intended use: Rialto Antisale is used to restore the constructions, which are deteriorated by humidity.
Chemical name and synonym: Water solution based on an inorganic acid and alkaline earth alio-silicates.
Name of the Company: **HARPO S.p.A.**
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02. COMPOSITION/INFORMATION ON INGREDIENTS

Name	Concentr.(C)	Classification
ESAFLUOSILICIC ACID N° Cas 16961-83-4 N° CE 009-011-00-5	5,50 – 9,80%	C R34
ALKALINE EARTH FLUOSILICATE N° Cas 18972-56-0 N° CE 009-013-00-6	4,00 - 6,00 %	T R25
AZO DYE	< 1%	Label not required

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

03. DANGER IDENTIFICATION

Substance/Preparation Classification.

This preparation is dangerous under 67/548/EEC and 1999/45/EC regulations and subsequent amendments. This prepareate requires a safety data sheet according to the 91/155/EC regulation and subsequent amendments. Further information on health and/or environmental hazards can be found in sections 11 and 12 of this sheet.

Danger Symbols: Xn

Phrases R:

22, 36/38

Danger identification.

HARMFUL IF SWALLOWED.
IRRITATING TO EYES AND SKIN.

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 or stopped, administer artificial respiration. Obtain immediate medical attention.

INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. 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 leakages with earth or inert material. Remove most of the product and then rinse the involved area by jets 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

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	Odourless
Colour	Dark red
Physical appearance	Liquid
Solubility in solvents	N.D.
Solubility in water	Completely soluble.
Volatile substances % by volume (solvents)	85%
Hazardous reactions	N.A.
Viscosity	N.A.
Vapour density	N.A.
Evaporation speed	N.A.
Comburent properties	N.A.
Partition coefficient: n-octanol/water	N.A.
pH	N.D.
Boiling point	N.D.
Flash point	N.A.
Explosive properties	N.A.
Vapour pressure	N.D.
Specific gravity	c.a. 1,09 Kg/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. The product reacts to strong bases.

11. TOXICOLOGICAL INFORMATION

Acute effects: stinging eyes. Symptoms may include rubescence, edema, pain and lachrymation. Contact with skin may cause irritation, erythema, edema, dryness and chapped skin. Vapour inhalation may slightly

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irritate the upper respiratory tract. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness. There are no data available on the preparation itself, but there are data referred to substances.

11.1 – INGESTION

LD 50 (rat): -
LD 50 (oral - gpg): 200/g/Kg

11.2 – CONTACT WITH EYES AND SKIN

Irritant solution.

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

Do not allow into drains or watercourses. Empty containers are to be deposited according to the official rules.

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

Health hazard symbol



Xn

HARMFUL

R22
R36/38
S23
S26
S38

HARMFUL IF SWALLOWED.
IRRITATING TO EYES AND SKIN.
DO NOT BREATHE VAPOURS.
IN CASE OF CONTACT WITH EYES RINSE IMMEDIATELY WITH
PLENTY OF WATER AND SEEK MEDICAL ADVICE.
IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE
RESPIRATORY EQUIPMENT.

Contains esafluosilicic acid and alkaline earth fluosilicate.

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

Workers exposed to this chemical agent must undergo health checks according to regulation 98/24/CE.

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16. FURTHER INFORMATIONS

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

R25 TOXIC IF SWALLOWED.
R34 CAUSES BURNS.

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;

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.