



BORUTA-ZACHEM

COLOUR

Product Information

The Information according to art. 32 of Regulation (EC) No 1907/2006 Of The European Parliament And Of The Council as amended

Revised date: 2014-04-10

Product: **ITALIAN RED**

BPI7924PR100E

Section 1. Identification of the substance/preparation and of the company/undertaking

1.1. Product identifier

Commercial name: **ITALIAN RED**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Pigment for industrial use, Italian Red is used in the paint and lacquers industry, in plastics, paper, rubber industry, building industry and fertilizers.

1.3. Details of the supplier of the safety data sheet

BORUTA-ZACHEM S.A.

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1.4. Emergency telephone number

+48 42 714 03 66 available only during office hours. (Mon. to Fri. at 7.30 a.m. – 3.30 p.m.)

+48 52 374 82 40 available only during office hours. (Mon. to Fri. at 7.00 a.m. – 3.00 p.m.)

Section 2. Hazards identification

2.1. Classification of the substance or mixture

On the basis of the principles contained in the Regulation (EC) No 1272/2008 of The European Parliament And Of The Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006, used calculation methodology the mixture is not classified as hazardous for human health and the environment.

2.2. Label elements

Labeling is not required.

2.3. Other hazards

Substances in the preparation are not classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

There are no additional requirements related to the labeling of the mixture.

Section 3. Composition/information on ingredients

3.1. Substances: not applicable.

3.2. Mixtures

Chemical nature: the product based on pigment – ferric oxide.

Calcium carbonate, substance contained in the mixture in a concentration greater than 1% has a specific national norm of maximum concentration in working area. Further information in Section 8

The mixture does not contain substances classified in accordance with Regulation 1272/2008/WE as posing a threat to human health and the environment at concentrations exceeding the corresponding concentration limits.

Section 4. First aid measures**4.1. Description of first aid measures**

General notes: In case of any symptoms, immediately call a doctor or take the victim to hospital to show the safety data sheet or label.

If inhaled: Remove to fresh air. In case of maintaining irritating respiratory tracts or other product harmful effect symptom such as breathing trouble, medical attention is needed.

On skin contact: Remove contaminated clothing. As soon as possible wash contaminated skin with plenty amount of water with soap or other washing agents, flush with water next. In particular cases medical attention is advisable.

On case of eyes contamination: Immediately wash affected eyes for at least 10 – 15 minutes with plenty amount of clean water with eyelids held open. Consult an eye specialist in case of irritation symptoms appearance.

On ingestion: Rinse mouth. Drink plenty of water, immediately seek medical attention.

Attention! Rinsing mouth and drinking water is possible only if the injured is conscious.

4.2. Most important symptoms and effects, both acute and delayed

In the case of exposure to the dusts of preparation may cause symptoms of respiratory tract irritation.

Exposure to contact to the mixture may lead to slight irritation. No information about the possibility of absorption through the skin or harmful symptoms of exposure by this road.

In the case of contamination of eye may cause slight mechanical irritation or colourisation of corneal.

There are no information about harmful effects by accidental ingestion. Accidental ingestion of product may cause irritation in the mouth and oesophagus, and gastrointestinal disorders.

The symptoms described above should be transient, if the symptoms persist you should immediately contact with doctor.

4.3. Indication of any immediate medical attention and special treatment needed

As soon as possible stop exposition to preparation, remove contaminated clothing, rinse out mouth. In case of short contact with mixture, if no disturbing symptoms appear immediate medical attention is not required.

There is no special medical procedures in relation to substances in the mixture. Use a conservative treatment.

Section 5. Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media: carbon dioxide, ABC or BC dry extinguishing media, quenching foam, dust, water spray.

Not suitable extinguishing media: All commonly used media are suitable. Because of possibility of fire extension using intense stream of water is not recommended.

5.2. Special hazards arising from the substance or mixture

Product is inflammable, use fire extinguishing measures appropriate to a source of danger. Avoid inhalation of fumes and gases generated during the fire. Decomposition products may be harmful or cause unexpected allergic reactions.

In the event of a fire on a larger scale necessary to provide adequate respiratory protection equipment.

5.3. Advice for firefighters

Firefighters should use respiratory protection equipment with an independent air circulation and adequate anti-chemical, heat resistant clothes. Containers, which are close to the fire should be moved to a safe place or cooled with water spray.

Prevent release of extinguishing agents and other materials to sewage system and water reservoirs. Contaminated extinguishing media must be disposed separately. Forming sewage and remains after fire should be remove according to valid procedures.

Section 6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Avoid mist forming, avoid inhalation of pigment particles and contact with skin and eyes.

Provide increased ventilation of the room in which there was an unintentional release. Risk control measures and the handling of the product are described in sections 7 and 8

6.1.2. For emergency personnel

Use standard protective clothing and rubber gloves. In the case of forming a large dusts of pigment concentration in air, it is necessary to use the mask with dust protection filter.

6.2. Environmental precautions

Secure the formulation against infiltrate to the sewer system. In case of spillage of large quantities of preparation, securing the area to minimize contamination of soil and surface water/groundwater.

6.3. Methods and material for containment and cleaning up

6.3.1. Due to the limited use of the preparation, there is little probability of environmental risks on a large scale. In the case of massive contamination, consult with a local group of chemical rescue. If the flow into lakes, rivers or sewers, notify the local authorities in accordance with local regulations.

6.3.2. Product can be wetted to prevent dusting. Collect product to a closable, labelled container. Flush the contaminated place with plenty of water with detergent. Dispose product in accordance with local regulations. Contaminated product can be transferred to burn or hazard waste dump.

6.3.3. No additional information relating to the removal of contaminants.

6.4. Reference to other sections

Risk control measures and the handling of the product described in sections 7 and 8. Waste treatment in Section 13

Section 7. Handling and storage**7.1. Precautions for safe handling**

7.1.1. Handling with care to avoid pigment dust formulation. Avoid direct contact with skin or inhalation of dust. Use protective clothes. Protective gloves and glasses are advisable. In case dust formulation, respiratory tract protective are recommended.

7.1.2. Always comply with occupational health and safety regulation. Do not drink, eat or smoke while handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep in dry, good ventilated and roofed places. No special care means during storage process are required.

7.3. Specific end use(s)

Pigment for industrial use, mainly is used in the paint and lacquers industry, in plastics, paper, rubber industry. Standard application process is described in Boruta-Zachem information materials.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

In accordance with UE Regulation 2000/39/EC, 2006/15/EC and 2009/161/WE according to establishing a list of indicative occupational exposure limit values and local Regulation of Ministry of Labour and Social Politics of 29.11.2002 according to highest permissible concentration of harmful factors in labour environment.(O.J.02.217.1833 dated 2002 December 18) with further changes O.J.05.212.1769, O.J.07.161.1142, O.J.09.105.873, O.J.10.141.950, O.J.11.274.1621) the highest permissible level in working area is:

Name of substance	CAS#	Concentration	Limits	Value / unit	
					EU
calcium carbonate – dust*	471-34-1	50 – 70%	Eight hours Short-term	10 mg/m ³ not established	not established not established

* Total dust containing free crystalline silica below 2%.

For substances present in the mixture has not been established norms of concentration in biological material.

8.2. Exposure controls**8.2.1. Appropriate engineering controls**

Use the product in areas with good ventilation when working with a mixture. When handling, use of technical solution to prevent dusting of mixture. Storing in sealed containers.

8.2.2. Individual protection measures, such as personal protective equipment

An employer shall ensure that the used personal protective equipment, clothing and footwear had a protective and functional properties relevant to the working conditions and the anticipated exposure to harmful factors. In an emergency, if the concentration of substances in the workplace is not known, use personal protection facilities of the highest class of protection is recommended. Adequate washing, maintenance, repair and decontamination of PPE

must be provide.

Warning! Recommended safety equipment is subject to certification of CE safety mark.

Eye/face protection: Recommended protection goggles closely adjacent to the face. Eye protection and face protection should be in accordance with standard EN 166.

Skin protection: Standard protective cloths are advised. Protective work clothing should be in accordance with standard EN465. Clothes and accessories should be washed and maintained regularly.

Hand protection: Used of protective gloves are required. Wear protective gloves resistant to chemicals according to EN-ISO 374:2005 or equivalent. It is recommended to use protective gloves made of rubber.

Respiratory protection: Not needed in normal conditions. At workplaces where excessive product concentration in air may occur, apply topical ventilation. In case of performing activities/operations related to the potential threat of mist formulation, use proper respiratory protection equipment. In such cases the use respirator or protection mask with antidusting filter type P1, or equivalent acc. to the EN141 standard is advised.

8.2.3 Environmental exposure controls

No chemical safety reports are required according to the substances included in preparation. No summary for environmental risk control measures but given the limited scope of the product, the risk of causing adverse changes in the environment associated with the use of the product is negligible.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	dark-red powder
Odour:	odorless
Odour threshold;	no applicable
pH: (20°C 10g/l H ₂ O, dispersion)	5,0 – 7,0
Melting point/freezing point;	no data
Initial boiling point and boiling range;	no applicable
Flash point;	no applicable inflammable mixture
Evaporation rate;	no applicable
Flammability (solid, gas);	not classified as flammable
Upper/lower flammability or explosive limits;	does not form explosive mixtures with air
Vapour pressure;	no applicable
Vapour density;	no applicable
Relative density/bulk density	no data/ca. 750 - 800 kg/m ³
Solubility(ies);	insoluble, solubility in water < 100 mg/L, dispersible
Partition coefficient: n-octanol/water;	no data
Auto-ignition temperature;	no applicable
Decomposition temperature;	no data
Viscosity;	no applicable
Explosive properties;	no explosive properties
Oxidising properties.	substances in the preparation do not have functional groups responsible for the oxidizing properties

9.2. Other information

no additional data

10. Stability and reactivity

10.1. Reactivity

Under normal conditions of storage and use, the mixture does not react dangerously with other substances.

10.2. Chemical stability

Mixture is not self-reactive. The product does not lose its application properties during storage.

10.3. Possibility of hazardous reactions

No information about possibilities of hazardous reactions.

10.4. Conditions to avoid

No specific hazard control measures required during storage.

10.5. Incompatible materials

No materials likely to pose a threat.

10.6. Hazardous decomposition products

Product is stabile, does not decompose.

Section 11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

LD₅₀/oral, rat/

no data for preparation (ferric oxides is not classification as hazardous)

Product not classified as hazardous when acting by oral way. Accidental ingestion of product may cause irritation in the mouth and esophagus, and gastrointestinal disorders.

LD₅₀/inhalation, rat/

no data

In case of exposure to the mixture dust a mild irritation of upper respiratory tract may cause. Due to the form of a mixture the occurrence of harmful effects of exposure by inhalation is unlikely.

LD₅₀/skin, rabbit/

no data

No data on the possibility of absorption of the substance with the mixture through the skin.

Irritation of skin and eyes:

Contact with product may cause slight irritation of skin. In case the preparation contact with eye, mechanical irritation or conjunctivitis may occur. There may be a reversible staining of the conjunctiva.

Sensitization In current industrial practice, the lack of reports of allergic action of any of the components of the mixture.

CMR effects In current industrial practice, the lack of reports of CMR actions of any of the components of the mixture. (CCRIS, IARC).

Section 12. Ecological information

12.1. Toxicity

LC₅₀, fish, *Danio rerio*

no data

LC₀, crustaceans, *Daphnia magna*

no data

IC₅₀, algae, *no species specify*

no data

EC₀, Bacteria toxicity:

no negative grow effect at: no data

12.2. Persistence and degradability

COD/BOD₅

inorganic substance, pigment is not biodegradable

12.3. Bioaccumulative potential

inorganic substance, exist in environment, components of the mixture are not suspected to be bioaccumulative.

12.4. Mobility in soil

solid product, dispersible in water, in case on accident there is slight possibility to release to soil and ground water, additionally due to leak of solubility in water, accessibility to aquatic are limited.

12.5. Results of PBT and vPvB assessment

there is no basis to classification as PBT or vPvB to any of the mixture components

12.6. Other adverse effects

no data about other effects.

Section 13. Disposal considerations**13.1 . Waste treatment methods**

Residues or the product unfit for use, should be disposed of as waste in accordance with the local regulation.

According to the catalog of waste, waste code is assigned depending on the source of their creation. The final user should, having regard to the specific conditions of use of the product, define the resulting waste and assign the appropriate code in accordance with applicable regulations.

A suggested code of waste – 07 03 99 - wastes from the MFSU of organic dyes and pigments (except 06 11), wastes not otherwise specified

Handling

Consider use or recovery. Do not store on municipal waste landfill. Do not empty into drains. Prevent pollution of surface water and groundwater.

Recovery or disposal of waste product made in accordance with applicable regulations, in installations or equipment meeting certain requirements.

The recommended method of disposal: recovery, incineration, storage in designated landfill.

Handling of packaging

Recovery (recycling) or disposal of packaging waste carried out in accordance with applicable regulations.

Recommended return of packaging to the manufacturer or recycling. Only completely emptied packaging can be recycled. Please use the services of companies that have the appropriate license.

Section 14. Transport information**Transport classification RID/ADR/IMDG/ICAO/IATA**

14.1. UN number Not classified as hazardous under transport regulations.

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Transport in bulk according to Annex

II of MARPOL73/78 and the IBC Code

Section 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****European Union regulations:**

Regulation (EC) No 1907/2006 Of The European Parliament And Of The Council Of 18 December 2006 Concerning The Registration, Evaluation, Authorisation And Restriction Of Chemicals (Reach), Establishing A European Chemicals Agency, Amending Directive 1999/45/EC And Repealing Council Regulation (EEC) No 793/93 And Commission Regulation (EC) No 1488/94 As Well As Council Directive 76/769/EEC And Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC And 2000/21/EC amended by regulations 987/2008, 134/2009, 552/2009, 276/2010, 453/2010, 143/2011, 207/2011, 252/2011, 253/2011, 366/2011, 494/2011, 109/2012, 125/2012, 412/2012, 836/2012, 847/2012, 848/2012.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 amended by regulation 790/2009, 286/2011, 618/2012.

Regulation (EC) No 1336/2008 of The European Parliament And Of The Council of 16 December 2008 amending Regulation (EC) No 648/2004 in order to adapt it to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work amended by Commission Directive 2006/15/EC of 7 February 2006 and Commission Directive 2009/161/EU of 17 December 2009.

Council Directive 89/686/EEC of 21 December 1989 on the approximation of the laws of the Member States relating to personal protective equipment

Commission Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

Directive 2004/37/EC of the European Parliament and of the Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives

Local (Poland) Regulations

Act of 25 February, 2011 about chemical substances and its mixtures (OJ.11.63.322) Regulation of Ministry of Health of 2.09.2003 about criteria and methods of chemical substances and preparations classification (OJ.03.171.1666) with further changes (OJ.04.243.2440, OJ.07.174.1222, OJ.09.43.353).

Regulation of Ministry of Health of 8.02.2010 about list of dangerous substances with its classification and marking (OJ.10.27.140), Regulation of Ministry of Health of 5.03.2009 about marking of packages containing dangerous substances and dangerous preparations and other chemical preparations (OJ.09.53.439)

Regulation of Ministry of Labour and Social Politics of 29 November 2002 about the highest allowed concentration and intensity of harmful factors for health in workplace (OJ.02.217.1833) with further changes (OJ.05.121.1769, OJ.07.161.1142, OJ.09.105.873, OJ.10.141.950, O.J.11.274.1621)

Regulation of Ministry of Economy of 21 December 2005 according to principle requirements of personal protection measures (OJ.05.259.2173)

Act of wastes of 27 April 2001 (OJ.01.62.628) with further changes.

Act of 28 October 2002 concerning the carriage of dangerous goods by road (with further modifications) (OJ.02.199.1671);

Declaration of Government of 23 March 2011 about introducing changes to Appendix A and B of the European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR) made in Geneva on the 30 September 1957 (OJ.11.110.641)

15.2. Chemical safety assessment

For substances in the mixture there are no obligations to perform a chemical safety assessment.

Additional information:

Substances in the mixture are not subject to special national or Community provisions concerning the protection of human health or the environment.

Section 16. Other information

Explanation of abbreviations and acronyms used in the document:

PBT – Persistent, bioaccumulative, toxic chemical

vPvB – Very persistent, very bioaccumulative chemical

LC₅₀ – Lethal concentration 50 percent kill

EC₅₀ – Median Effective Concentration (required to induce a 50% effect)

b.w. – body weight

Appropriate training:

The employer is obliged to inform all employees who have contact with product about any hazards and personal protective measures listed in this product information. The entrepreneur should have documents attesting passing by workers appropriate training courses of safety and hygiene of work and fire protection in the workplace.

Data sources:

MSDS of mixture or components delivered by suppliers.

Online databases: European Chemical Substances Information System (ESIS), United States National Library of Medicine (NLM), Chemical Carcinogenesis Research Information System (CCRIS), National Institute for Occupational Safety and Health (NIOSH), The Global Portal to Information on Chemical Substances (OECD), International Agency for Research on Cancer (IARC).

Additional information

The information contained herein is based on our present knowledge. They were taken from our own researches, literature data and MSDS or information received from suppliers of preparation components. Those data were gathered to sheet safety requirements without guarantee of product properties.

User of this product can't feel free for observing existing laws and regulations in reference to handling of chemical products.

Purchaser takes the responsibility for protecting his personnel and environment while using the preparation.

This product must be stored, transported and handled with good industrial hygiene and safety practice for chemical goods handle and in accordance with all suitable regulations

