

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

· Product details

· Trade name: **B310 BOYSEN RED OXIDE PRIMER**

· Application of the substance / the preparation

Boysen Red Oxide Primer is a rust inhibiting primer for steel and iron surfaces. It is particularly good for metal shops who deliver metal products coated with a shop primer to protect them from rust corrosion until such time as they are finished with desired topcoat.

Principal Uses: As a primer for exterior and interior steel

· Manufacturer/Supplier:

Pacific Paint (Boysen) Phils., Inc.
292 D. Tuazon St., Quezon City
1115 Philippines

· Further information obtainable from: Product safety department

· Information in case of emergency:

Telephone Nos.: +63 2 364 3505; +63 2 365 0561

Facsimile Nos.: +63 2 367 8878; +63 2 364 0472

Email Address : inquiry@boysen.com.ph

Website Address : www.boysen.com.ph

2 Hazards identification

· Hazard description:



T Toxic

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 45 May cause cancer.

R 46 May cause heritable genetic damage.

R 48 Danger of serious damage to health by prolonged exposure.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65 Harmful: may cause lung damage if swallowed.

R 67 Vapours may cause drowsiness and dizziness.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· GHS label elements



Danger

3.5/1B - May cause genetic defects.

3.6/1B - May cause cancer.

3.10/1 - May be fatal if swallowed and enters airways.



Warning

2.6/3 - Flammable liquid and vapour.

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**Warning**

3.8/3 - May cause drowsiness or dizziness.

4.1/3 - Harmful to aquatic life with long lasting effects.

Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

Use personal protective equipment as required.

Response:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF exposed or concerned: Get medical advice/attention.

Call a POISON CENTER or doctor/physician if you feel unwell.

Do NOT induce vomiting.

In case of fire: Use for extinction: CO₂, powder or water spray.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 471-34-1 EINECS: 207-439-9	calcium carbonate	10-25%
CAS: 8008-20-6 EINECS: 232-366-4	Kerosine (petroleum) ⚠ Xn, ⚠ Xi, ⚠ F, ⚠ N; R 11-20-38-48-51/53-65-66-67 Danger: ⚠ 2.6/2; ⚠ 3.10/1 Warning: ⚠ 3.1.1/4, 3.8/3; 3.2/3 ⚠ 4.1.C/2	10-25%
CAS: 64742-81-0 EINECS: 265-184-9	Kerosine (petroleum), hydrodesulfurized ⚠ Xn; R 65 Danger: ⚠ 3.10/1	2.5-10%

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CAS: 64742-82-1 EINECS: 265-185-4	Naphtha (petroleum), hydrodesulfurized heavy Carc. Cat. 2, Muta. Cat. 2;  T; R 45-46-65 Danger:  3.5/1B, 3.6/1B, 3.10/1 Warning:  2.6/3	≤ 2.5%
CAS: 22464-99-9 EINECS: 245-018-1	Zirconium 2-ethylhexanoate 2-ethylhexanoic acid zirconium salt  Xn,  Xi,  N; R 10-20/21-36/37/38-51/53-65 Danger:  3.1.D/3, 3.1.I/4, 3.2/2, 3.3/2A, 3.8/3;  3.10/1 Warning:  2.6/3  4.1.C/2	≤ 2.5%

Additional information:

For the wording of the listed risk phrases refer to section 16.

CAS: 14807-96-6 EINECS: 238-877-9	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	10-25%
CAS: 7732-18-5 EINECS: 231-791-2	water, distilled, conductivity or of similar purity	10-25%
CAS: 1309-37-1 EINECS: 215-168-2	diiron trioxide	2.5-10%

4 First aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

5 Fire-fighting measures

Suitable extinguishing agents:
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Protective equipment: No special measures required.

6 Accidental release measures

Person-related safety precautions: Not required.

Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage

Handling:
Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

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Prevent formation of aerosols.

· **Information about fire - and explosion protection:** Keep respiratory protective device available.

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep container tightly sealed.

8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Ingredients with limit values that require monitoring at the workplace:**

471-34-1 calcium carbonate

REL (USA) 15 * 5 ** mg/m³
*total dust **respirable fraction

REL (USA) 10 * 5 ** mg/m³
*total dust **respirable fraction

TLV (USA) TLV withdrawn

8008-20-6 Kerosine (petroleum)

REL (USA) 100 mg/m³
TLV (USA) 200 mg/m³
as total hydrocarbon vapor; Skin; P

64742-81-0 Kerosine (petroleum), hydrodesulfurized

REL (USA) 100 mg/m³
TLV (USA) 200 mg/m³
as total hydrocarbon vapor; Skin; P

· **Additional information:** The lists valid during the making were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:**

Tightly sealed goggles

9 Physical and chemical properties

· General Information

Form: Fluid
Colour: According to product specification
Odour: Characteristic

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 100°C

· **Flash point:** Not applicable.

· **Ignition temperature:** 210°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· Explosion limits:

Lower: 0.7 Vol %
Upper: 5.0 Vol %

· **Vapour pressure at 20°C:** 23 hPa

· **Density:** 1.27 - 1.37 Kg/Li

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· **Viscosity:** 85 - 90 KU

· Solvent content:

Organic solvents: 23.9 %
Water: 13.7 %
VOC (EC) 276.3 g/L

· **Solids content:** 61.7 %

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Dangerous reactions** No dangerous reactions known.

· **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Acute toxicity:**

· **Primary irritant effect:**

· **on the skin:** Cause mild irritation

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

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· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Carcinogenic.

The product can cause inheritable damage.

12 Ecological information

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Harmful to aquatic organisms

13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **Land transport ADR/RID (cross-border)**



· **ADR/RID class:** 3 (F1) Flammable liquids.

· **Danger code (Kemler):** 30

· **UN-Number:** 1263

· **Packaging group:** III

· **Hazard label:** 3

· **Description of goods:** 1263 PAINT, special provision 640E

· **Maritime transport IMDG:**



· **IMDG Class:** 3

· **UN Number:** 1263

· **Label:** 3

· **Packaging group:** III

· **EMS Number:** F-E,S-E

· **Marine pollutant:** No

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· **Proper shipping name:** PAINT· **Air transport ICAO-TI and IATA-DGR:**· **ICAO/IATA Class:** 3· **UN/ID Number:** 1263· **Label** 3· **Packaging group:** III· **Proper shipping name:** PAINT· **UN "Model Regulation":** UN1263, PAINT, 3, III

15 Regulatory information

· **Philippines Inventory of Chemicals and Chemical Substances**

471-34-1	calcium carbonate
8008-20-6	Kerosine (petroleum)
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)
64742-81-0	Kerosine (petroleum), hydrodesulfurized
1309-37-1	diiron trioxide
65996-63-6	Polysaccharide
68953-58-2	bis(hydrogenatedtallowalkyl)dimethylammoniumbentonite Ditallowdimethylammonium
8030-76-0	Lecithin Phosphatidylcholine Vegetable Lecithin Lecithin soya bean Lecithin soybean Soybean Soyabean lecithin
64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy
136-52-7	cobalt bis(2-ethylhexanoate)
22464-99-9	Zirconium 2-ethylhexanoate 2-ethylhexanoic acid zirconium salt
107-98-2	1-methoxy-2-propanol
96-29-7	2-butanone oxime
64742-49-0	Naphtha (petroleum), hydrotreated light
8052-41-3	Stoddard solvent

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**

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· **Hazard-determining components of labelling:**

Kerosine (petroleum)

Naphtha (petroleum), hydrodesulfurized heavy

· **Risk phrases:**

45 May cause cancer.

46 May cause heritable genetic damage.

48 Danger of serious damage to health by prolonged exposure.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

53 Avoid exposure - obtain special instructions before use.

1/2 Keep locked up and out of the reach of children.

13 Keep away from food, drink and animal feedingstuffs.

20 When using do not eat or drink.

29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

· **Special labelling of certain preparations:**

Contains cobalt bis(2-ethylhexanoate), 2-butanone oxime. May produce an allergic reaction.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant R-phrases**

10 Flammable.

11 Highly flammable.

20 Harmful by inhalation.

20/21 Harmful by inhalation and in contact with skin.

36/37/38 Irritating to eyes, respiratory system and skin.

38 Irritating to skin.

45 May cause cancer.

46 May cause heritable genetic damage.

48 Danger of serious damage to health by prolonged exposure.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

· **Department issuing MSDS:**

Safety, Health and Environment Department

Gretchen A. Fontejon - g_fontejon@boysen.com.ph

Joanne C. Ysrael - joanneysrael@boysen.com.ph

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

VOC: Volatile Organic Compounds (USA, EU)

· *** Data compared to the previous version altered. 12.01.2011**