Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 11.04.2012 *Version number 2* *Revision: 22.02.2010*

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

· **Product identifier**

· **Trade name: B676 BOYSEN QUICK DRYING ENAMEL ORANGE**

· **Relevant identified uses of the substance or mixture and uses advised against**

· **Application of the substance / the preparation**

Boysen Quick Drying Enamel is a premium quality alkyd enamel formulated to provide a beautiful, high gloss film with superior hiding and durability on interior wood and metal surfaces.

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

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

· **Further information obtainable from:** *Product safety department*

· **Emergency telephone number:**

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

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2 Hazards identification

· **Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS06 skull and crossbones

Acute Tox. 2 H300 Fatal if swallowed.



GHS08 health hazard

Carc. 1B H350 May cause cancer.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



T; Toxic

R45-46: May cause cancer. May cause heritable genetic damage.



Xn; Harmful

R48-65: Danger of serious damage to health by prolonged exposure. Harmful: may cause lung damage if swallowed.

R10-52/53: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 11.04.2012 Version number 2 Revision: 22.02.2010

Trade name: B676 BOYSEN QUICK DRYING ENAMEL ORANGE

(Contd. of page 1)

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

· **Label elements**

· **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:**



T Toxic

· **Hazard-determining components of labelling:**
Kerosine (petroleum), hydrodesulfurized
Kerosine (petroleum)
Stoddard solvent
Naphtha (petroleum), hydrotreated heavy

· **Risk phrases:**
45 May cause cancer.
46 May cause heritable genetic damage.
10 Flammable.
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.

· **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.
· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 11.04.2012 | Version number 2 | Revision: 22.02.2010

Trade name: B676 BOYSEN QUICK DRYING ENAMEL ORANGE

(Contd. of page 2)

· **Dangerous components:**

CAS: 64742-81-0 EINECS: 265-184-9	Kerosine (petroleum), hydrodesulfurized Xn R65 Asp. Tox. 1, H304	10-25%
CAS: 8008-20-6 EINECS: 232-366-4	Kerosine (petroleum) Xn R20-48-65; Xi R38; F R11; N R51/53 R66-67 Asp. Tox. 1, H304	10-25%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	2.5-10%
CAS: 22464-99-9 EINECS: 245-018-1	Zirconium 2-ethylhexanoate 2-ethylhexanoic acid zirconium salt Xn R20/21-65; Xi R36/37/38; N R51/53 R10 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≤ 2.5%
CAS: 96-29-7 EINECS: 202-496-6	2-butanone oxime Xn R21; Xi R41; Xi R43 Carc. 2, H351; Eye Dam. 1, H318; Acute Tox. 4, H312; Skin Sens. 1, H317	≤ 2.5%
CAS: 136-52-7 EINECS: 205-250-6	cobalt bis(2-ethylhexanoate) Xn R68; Xi R36/37/38; Xi R43 R10 Flam. Liq. 3, H226; STOT SE 2, H371; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≤ 2.5%
CAS: 8052-41-3 EINECS: 232-489-3	Stoddard solvent T Carc. Cat. 2, Muta. Cat. 2 R45-46; Xn R65 Carc. 1B, H350; Asp. Tox. 1, H304	≤ 2.5%
CAS: 64742-48-9 EINECS: 265-150-3	Naphtha (petroleum), hydrotreated heavy T Carc. Cat. 2, Muta. Cat. 2 R45-46; Xn R65 Carc. 1B, H350; Asp. Tox. 1, H304	≤ 2.5%

· **Additional information:**
For the wording of the listed risk phrases refer to section 16.

CAS: 3520-72-7	C.I.Pigment Orange 13 Acute Tox. 1, H300	2.5-10%
CAS: 51274-00-1 EINECS: 257-098-5	Synthetic Iron Oxide	≤ 2.5%
CAS: 113163-32-9	Unsaturated Polar esters	≤ 2.5%
CAS: 7732-18-5 EINECS: 231-791-2	water, distilled, conductivity or of similar purity	10-25%

4 First aid measures

· **Description of 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.

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: B676 BOYSEN QUICK DRYING ENAMEL ORANGE

(Contd. of page 3)

· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:** CO2, sand, extinguishing powder. Do not use water.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:**
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.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
· **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**
· **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.

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: B676 BOYSEN QUICK DRYING ENAMEL ORANGE

(Contd. of page 4)

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
64742-81-0 Kerosine (petroleum), hydrodesulfurized	
REL (USA)	100 mg/m³
TLV (USA)	200 mg/m³ as total hydrocarbon vapor; Skin; P
8008-20-6 Kerosine (petroleum)	
REL (USA)	100 mg/m³
TLV (USA)	200 mg/m³ as total hydrocarbon vapor; Skin; P
13463-67-7 titanium dioxide	
PEL (USA)	15* mg/m³ *total dust
REL (USA)	See Pocket Guide App. A
TLV (USA)	10 mg/m³
8052-41-3 Stoddard solvent	
PEL (USA)	2900 mg/m³, 500 ppm
REL (USA)	Short-term value: C 1800* mg/m³ Long-term value: 350 mg/m³ *15-min
TLV (USA)	525 mg/m³, 100 ppm

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

· **Exposure controls**
· **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

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: B676 BOYSEN QUICK DRYING ENAMEL ORANGE

(Contd. of page 5)

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.

· **Eye protection:**



Tightly sealed goggles

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Liquid
Colour:	According to product specification
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100°C
· **Flash point:**	43°C
· **Flammability (solid, gaseous):**	Not applicable.
· **Ignition temperature:**	210°C
· **Decomposition temperature:**	Not determined.
· **Self-igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
· **Explosion limits:**	
Lower:	0.7 Vol %
Upper:	5.0 Vol %
· **Vapour pressure at 20°C:**	23 hPa
· **Density:**	Not determined.
· **Relative density**	Not determined.
· **Vapour density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with water:**	Not miscible or difficult to mix.
· **Segregation coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	88 - 92 KU
· **Dynamic:**	Not determined.

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: B676 BOYSEN QUICK DRYING ENAMEL ORANGE

(Contd. of page 6)

· **Kinematic:**	Not determined.
· **Solvent content:**	
Organic solvents:	36.4 %
Water:	13.7 %
VOC (EC)	420 g/Li
Solids content:	42.7 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity**
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**		
64742-48-9 Naphtha (petroleum), hydrotreated heavy		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)

· **Primary irritant effect:**
· **on the skin:** Cause mild irritation
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **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

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behaviour in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Ecotoxical effects:**
· **Remark:** Harmful to fish

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: B676 BOYSEN QUICK DRYING ENAMEL ORANGE

(Contd. of page 7)

· **Additional ecological information:**
· **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
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **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

· **UN-Number**	
· **ADR, IMDG, IATA**	UN1263
· **UN proper shipping name**	
· **ADR**	1263 PAINT, special provision 640E
· **IMDG, IATA**	PAINT
· **Transport hazard class(es)**	
· **ADR**	
· **Class**	3 (F1) Flammable liquids.
· **Label**	3
· **IMDG, IATA**	
· **Class**	3 Flammable liquids.
· **Label**	3
· **Packing group**	
· **ADR, IMDG, IATA**	III

(Contd. on page 9)

Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: B676 BOYSEN QUICK DRYING ENAMEL ORANGE

(Contd. of page 8)

· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Special precautions for user**	Warning: Flammable liquids.
· **Danger code (Kemler):**	30
· **EMS Number:**	F-E,S-E
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **ADR**	
· **Tunnel restriction code**	D/E
· **UN "Model Regulation":**	UN1263, PAINT, special provision 640E, 3, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Philippines Inventory of Chemicals and Chemical Substances**	
64742-81-0	Kerosine (petroleum), hydrodesulfurized
8008-20-6	Kerosine (petroleum)
3520-72-7	C.I.Pigment Orange 13
13463-67-7	titanium dioxide
51274-00-1	Synthetic Iron Oxide
113163-32-9	Unsaturated Polar esters
65996-63-6	Polysaccharide
1332-37-2	Iron oxide
7631-86-9	silicon dioxide, chemically prepared
21645-51-2	aluminium hydroxide
22464-99-9	Zirconium 2-ethylhexanoate 2-ethylhexanoic acid zirconium salt
68953-58-2	bis(hydrogenatedtallowalkyl)dimethylammoniumbentonite Ditallowdimethylammonium
96-29-7	2-butanone oxime
136-52-7	cobalt bis(2-ethylhexanoate)
8052-41-3	Stoddard solvent

· **National regulations:**

· **Information about limitation of use:**
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.
Exceptions can be made by the authorities in certain cases.
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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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.

(Contd. on page 10)

Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: B676 BOYSEN QUICK DRYING ENAMEL ORANGE

(Contd. of page 9)

· **Relevant phrases**

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H350 May cause cancer.
H351 Suspected of causing cancer.
H371 May cause damage to organs.
H411 Toxic to aquatic life with long lasting effects.

R10 Flammable.
R11 Highly flammable.
R20 Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with skin.
R21 Harmful in contact with skin.
R36/37/38 Irritating to eyes, respiratory system and skin.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R45 May cause cancer.
R46 May cause heritable genetic damage.
R48 Danger of serious damage to health by prolonged exposure.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
R68 Possible risk of irreversible effects.

· **Department issuing MSDS:**
Safety, Health and Environment Department
Gretchen A. Fontejon - g_fontejon@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
ICAO: International Civil Aviation Organization
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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

22.02.2010