Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 18.02.2011 *Revision: 18.02.2011*

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

· **Product details**

· **Trade name: B1258 BOYSEN WATER WHITE CLEAR GLOSS LACQUER**

· **Application of the substance / the preparation**
Boysen Water White Clear Gloss Lacquer is the highest grade clear gloss lacquer finish for a durable finishing for interior woodwork. Its properties enhance the natural grain of wood.

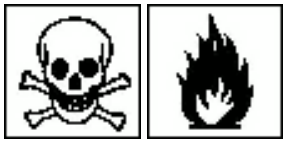
Principal Uses : For lacquer finishing of interior wood walls, furniture, fixtures, cabinets, doors and panels.

· **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
F Highly flammable

· **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 11 Highly flammable.
R 38 Irritating to skin.
R 48/20 Also harmful: danger of serious damage to health by prolonged exposure through inhalation.
R 63 Possible risk of harm to the unborn child.
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

2.6/2 - Highly flammable liquid and vapour.



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.
3.7/2 - Suspected of damaging fertility or the unborn child.
3.9/2 - May cause damage to organs through prolonged or repeated exposure.

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Warning

3.2/2 - Causes skin irritation.
3.8/3 - May cause drowsiness or dizziness.

· ***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.
Do not breathe dust/fume/gas/mist/vapours/spray.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
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: Wash with plenty of soap and water.
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.
Get medical advice/attention if you feel unwell.
Specific treatment (see on this label).
Do NOT induce vomiting.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.
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: 108-88-3 *EINECS: 203-625-9*	*toluene* *Repr. Cat. 3; Xn, Xi, F; R 11-38-48/20-63-65-67* *Danger: 2.6/2; 3.10/1, 3.7/2, 3.9/2* *Warning: 3.2/2, 3.8/3*	*25-50%*

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CAS: 123-86-4 EINECS: 204-658-1	n-butyl acetate R 10-66-67 Warning: 2.6/3; 3.8/3	10-25%
CAS: 67-64-1 EINECS: 200-662-2	acetone Xi, F; R 11-36-66-67 Danger: 2.6/2 Warning: 3.3/2A, 3.8/3	2.5-10%
CAS: 64742-89-8 EINECS: 265-192-2	Solvent naphtha (petroleum), light aliph. Carc. Cat. 2, Muta. Cat. 2; T; R 45-46-65 Danger: 3.5/1B, 3.6/1B, 3.10/1	2.5-10%
CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol Xi, F; R 11-36-67 Danger: 2.6/2 Warning: 3.3/2A, 3.8/3	2.5-10%
CAS: 111-76-2 EINECS: 203-905-0	2-butoxyethanol Xn, Xi; R 20/21/22-36/38 Danger: 3.1.O/3, 3.1.D/3, 3.1.I/4, 3.2/2, 3.3/2A Warning: 2.6/4	2.5-10%

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

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:** In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:** If symptoms persist consult doctor.

5 Fire-fighting measures

· **Suitable extinguishing agents:** CO2, sand, extinguishing powder. Do not use water.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
· **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.
Do not flush with water or aqueous cleansing agents

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7 Handling and storage

· **Handling:**
· **Information 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.

· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store in a cool location.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

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:**	
108-88-3 toluene	
PEL (USA)	Short-term value: C 300; 500* ppm Long-term value: 200 ppm *10-min peak per 8-hr shift
REL (USA)	Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm
TLV (USA)	75 mg/m³, 20 ppm
123-86-4 n-butyl acetate	
PEL (USA)	710 mg/m³, 150 ppm
REL (USA)	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm
TLV (USA)	Short-term value: 950 mg/m³, 200 ppm Long-term value: 713 mg/m³, 150 ppm
67-64-1 acetone	
PEL (USA)	2400 mg/m³, 1000 ppm
REL (USA)	590 mg/m³, 250 ppm
TLV (USA)	Short-term value: 1782 mg/m³, 750 ppm Long-term value: 1188 mg/m³, 500 ppm BEI
IOELV (EU)	1210 mg/m³, 500 ppm
67-63-0 propan-2-ol	
PEL (USA)	980 mg/m³, 400 ppm
REL (USA)	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm
TLV (USA)	Short-term value: 984 mg/m³, 400 ppm Long-term value: 492 mg/m³, 200 ppm BEI

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111-76-2 2-butoxyethanol	
ACGIH (USA)	Short-term value: 20 ppm
PEL (USA)	240 mg/m³, 50 ppm Skin
REL (USA)	24 mg/m³, 5 ppm Skin
TLV (USA)	Short-term value: 240 mg/m³, 20 ppm Long-term value: 97 mg/m³, 20 ppm
IOELV (EU)	Short-term value: 246 mg/m³, 50 ppm Long-term value: 98 mg/m³, 20 ppm Skin

· **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.
Avoid contact with the skin.
Avoid contact with the eyes and skin.
· **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.
· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **General Information**

Form:	Transparent Clear
Colour:	According to product specification

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Odour:	Characteristic
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	55°C
· **Flash point:**	-19°C
· **Ignition temperature:**	240°C
· **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:	1.2 Vol %
Upper:	7.5 Vol %
· **Vapour pressure at 20°C:**	29 hPa
· **Density:**	0.90 - 1.00 Kg/L
· **Solubility in / Miscibility with water:**	Not miscible or difficult to mix.
· **Solvent content:**	
Organic solvents:	75.0 %
VOC (EC)	810 g/L
· **Solids content:**	25.0 %

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:**

· **LD/LC50 values relevant for classification:**		
108-88-3 toluene		
Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

· **Primary irritant effect:**
· **on the skin:** Irritant to skin and mucous membranes.
· **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:
Irritant
Carcinogenic.
The product can cause inheritable damage.

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12 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.

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):** 33
· **UN-Number:** 1993
· **Packaging group:** II
· **Hazard label:** 3
· **Description of goods:** 1993 FLAMMABLE LIQUID, N.O.S. (TOLUENE, ACETONE), special provision 640D

· **Maritime transport IMDG:**



· **IMDG Class:** 3
· **UN Number:** 1993
· **Label** 3
· **Packaging group:** II
· **EMS Number:** F-E,S-E
· **Marine pollutant:** No
· **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (TOLUENE, ACETONE)

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 3
· **UN/ID Number:** 1993
· **Label** 3

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· **Packaging group:** II
· **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (TOLUENE, ACETONE)

· **UN "Model Regulation":** UN1993, FLAMMABLE LIQUID, N.O.S., 3, II

15 Regulatory information

· **Philippines Inventory of Chemicals and Chemical Substances**
All ingredients are listed.

· **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
F Highly flammable

· **Hazard-determining components of labelling:**
toluene
Solvent naphtha (petroleum), light aliph.

· **Risk phrases:**
45 May cause cancer.
46 May cause heritable genetic damage.
11 Highly flammable.
38 Irritating to skin.
48/20 Also harmful: danger of serious damage to health by prolonged exposure through inhalation.
63 Possible risk of harm to the unborn child.
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.
7/9 Keep container tightly closed and in a well-ventilated place.
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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.
20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
36 Irritating to eyes.
36/38 Irritating to eyes and skin.
38 Irritating to skin.
45 May cause cancer.
46 May cause heritable genetic damage.

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48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
63 Possible risk of harm to the unborn child.
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
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
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

· **** Data compared to the previous version altered.*** 18.02.2011