

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

· Product details

· Trade name: **B1254 BOYSEN LACQUER SANDING SEALER**

· Application of the substance / the preparation

Boysen Lacquer Sanding Sealer is a commercial grade nitrocellulose-based sealer for wood before finishing with either gloss or flat lacquer. It has good sealing and hold out properties and require less sanding.

Principal Uses : For interior sealed wood such as 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:



Xn Harmful

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 11 Highly flammable.

R 20 Harmful by inhalation.

R 36/38 Irritating to eyes and skin.

R 48/20 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.

· 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

3.10/1 - 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**

- 3.1/4 - Harmful if inhaled.
- 3.2/2 - Causes skin irritation.
- 3.3/2A - Causes serious eye irritation.

Warning

- 3.1/5 - May be harmful in contact with skin.

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 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- 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.
- If eye irritation persists: 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 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:

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| | | |
|-------------------------------------|--|---------|
| 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% |
| CAS: 108-10-1 EINECS: 203-550-1 | 4-methylpentan-2-one Xn, Xi, F; R 11-20-36/37-66 Danger: 2.6/2 Warning: 3.1.1/4, 3.3/2A, 3.8/3 | 10-25% |
| CAS: 78-93-3 EINECS: 201-159-0 | butanone Xi, F; R 11-36-66-67 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: 3.1.0/3, 3.1.D/3, 3.1.1/4, 3.2/2, 3.3/2A Warning: 2.6/4 | 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: 1330-20-7 EINECS: 215-535-7 | xylene Xn, Xi; R 10-20/21-38 Danger: 3.1.D/3, 3.1.1/4, 3.2/2 Warning: 2.6/3 | ≤ 2.5% |

· **Additional information:**

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

| | | |
|-------------------|---------------------------|---------|
| cellulose nitrate | F; R 11 Danger: 2.7/1 | 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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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. If symptoms persist, 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:** Mouth respiratory protective device.

6 Accidental release measures

· **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

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· **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

7 Handling and storage

· **Handling:**

· **Information for safe handling:**

- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.

· **Information about fire - and explosion protection:**

- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.

· **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/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm |
| TLV (USA) | 75 mg/m ³ , 20 ppm |

108-10-1 4-methylpentan-2-one

| | |
|------------|--|
| PEL (USA) | 410 mg/m ³ , 100 ppm |
| REL (USA) | Short-term value: 300 mg/m ³ , 75 ppm Long-term value: 205 mg/m ³ , 50 ppm |
| TLV (USA) | Short-term value: 307 mg/m ³ , 75 ppm Long-term value: (205) NIC-123 mg/m ³ , (50) NIC-30 ppm BEI;NIC-A3 |
| IOELV (EU) | Short-term value: 208 mg/m ³ , 50 ppm Long-term value: 83 mg/m ³ , 20 ppm |

78-93-3 butanone

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| | |
|---------------------------------|--|
| PEL (USA) | 590 mg/m ³ , 200 ppm |
| REL (USA) | Short-term value: 885 mg/m ³ , 300 ppm Long-term value: 590 mg/m ³ , 200 ppm |
| TLV (USA) | Short-term value: 885 mg/m ³ , 300 ppm Long-term value: 590 mg/m ³ , 200 ppm |
| IOELV (EU) | BEI Short-term value: 900 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm |
| 111-76-2 2-butoxyethanol | |
| ACGIH (USA) | Short-term value: 20 ppm |
| PEL (USA) | 240 mg/m ³ , 50 ppm Skin |
| REL (USA) | 24 mg/m ³ , 5 ppm Skin |
| TLV (USA) | Short-term value: 240 mg/m ³ , 20 ppm Long-term value: 97 mg/m ³ , 20 ppm |
| IOELV (EU) | Short-term value: 246 mg/m ³ , 50 ppm Long-term value: 98 mg/m ³ , 20 ppm Skin |
| 67-63-0 propan-2-ol | |
| PEL (USA) | 980 mg/m ³ , 400 ppm |
| REL (USA) | Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm |
| TLV (USA) | Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm BEI |
| 1330-20-7 xylene | |
| PEL (USA) | 435 mg/m ³ , 100 ppm |
| REL (USA) | Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm |
| TLV (USA) | Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI |
| IOELV (EU) | Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 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.

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.

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

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 78°C

· **Flash point:** -4°C

· **Ignition temperature:** 180°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: 9.0 Vol %

· **Vapour pressure at 20°C:** 29 hPa

· **Density:** 0.8 - 0.9 Kg/L

· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

· **Solvent content:**

Organic solvents: 83.0 %

VOC (EC) 830 g/L

· **Solids content:** 17.0 %

10 Stability and reactivity

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

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

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

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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) |

108-10-1 4-methylpentan-2-one

| | | |
|------------|----------|---------------------|
| Oral | LD50 | 2080 mg/kg (rat) |
| Dermal | LD50 | 16000 mg/kg (rab) |
| Inhalative | LC50/4 h | 8.3-16.6 mg/l (rat) |

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** 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:

Harmful

Irritant

12 Ecological information

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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

Danger to drinking water if even 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

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· **Packaging group:** II
 · **Hazard label:** 3
 · **Description of goods:** 1993 FLAMMABLE LIQUID, N.O.S. (TOLUENE, METHYL ISOBUTYL KETONE), 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, METHYL ISOBUTYL KETONE)

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



· **ICAO/IATA Class:** 3
 · **UN/ID Number:** 1993
 · **Label** 3
 · **Packaging group:** II
 · **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (TOLUENE, METHYL ISOBUTYL KETONE)

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

15 Regulatory information

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

| | |
|-----------|----------------------|
| 108-88-3 | toluene |
| 108-10-1 | 4-methylpentan-2-one |
| 78-93-3 | butanone |
| 111-76-2 | 2-butoxyethanol |
| 67-63-0 | propan-2-ol |
| 1330-20-7 | xylene |

· **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:**



Xn Harmful
 F Highly flammable

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

toluene

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· **Risk phrases:**

- 11 Highly flammable.
- 20 Harmful by inhalation.
- 36/38 Irritating to eyes and skin.
- 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.

· **Safety phrases:**

- 2 Keep out of the reach of children.
- 9 Keep container in a well-ventilated place.
- 13 Keep away from food, drink and animal feedingstuffs.
- 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.
- 46 If swallowed, seek medical advice immediately and show this container or label.

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.
- 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- 36 Irritating to eyes.
- 36/37 Irritating to eyes and respiratory system.
- 36/38 Irritating to eyes and skin.
- 38 Irritating to skin.
- 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

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· **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**

RP