

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

· **Product identifier**

· **Trade name:** **B1390 BOYSEN LACQUER TINTING COLOR BLACK**

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

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

Boysen Automotive Lacquer is a nitocellulose, solvent--based, high gloss, lacquer type paint that is easy to apply and dries rapidly to a long-wearing attractive finish.

Principal Uses : For indoor wood surfaces such as doors, doorjambs, cabinets and shelves

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

· **Manufacturer/Supplier:**

Pacific Paint (Boysen) Phils., 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

2 Hazards identification

· **Classification of the substance or mixture**

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



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Repr. 2 H361d Suspected of damaging the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

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



T; Toxic

R45-46-60-61: May cause cancer. May cause heritable genetic damage. May impair fertility. May cause harm to the unborn child.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.05.2012

Version number 2

Revision: 25.11.2010

Trade name: B1390 BOYSEN LACQUER TINTING COLOR BLACK

(Contd. of page 1)



Xn; Harmful

R48/20-63-65: Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed.



F; Highly flammable

R11: Highly flammable.

R67: Vapours may cause drowsiness and dizziness.

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

F Highly flammable

Hazard-determining components of labelling:

toluene

Solvent naphtha (petroleum), light aliph.

2-ethoxyethanol

Risk phrases:

45 May cause cancer.

46 May cause heritable genetic damage.

60 May impair fertility.

61 May cause harm to the unborn child.

11 Highly flammable.

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).

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.05.2012

Version number 2

Revision: 25.11.2010

Trade name: B1390 BOYSEN LACQUER TINTING COLOR BLACK

(Contd. of page 2)

- **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.

· **Dangerous components:**

CAS: 123-86-4 EINECS: 204-658-1	n-butyl acetate R10-66-67 Flam. Liq. 3, H226; STOT SE 3, H336	10-25%
CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol Xi R36; F R11 R67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10-25%
CAS: 108-88-3 EINECS: 203-625-9	toluene Xn R48/20-63-65; Xi R38; F R11 R67 Repr. Cat. 3 Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	2.5-10%
CAS: 110-80-5 EINECS: 203-804-1	2-ethoxyethanol T Repr. Cat. 2 R60-61; Xn R20/21/22 R10 Flam. Liq. 3, H226; Repr. 1B, H360FD; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	2.5-10%
CAS: 67-64-1 EINECS: 200-662-2	acetone Xi R36; F R11 R66-67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	2.5-10%
CAS: 1330-20-7 EINECS: 215-535-7	xylene Xn R20/21; Xi R38 R10 Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	≤ 2.5%
CAS: 64742-89-8 EINECS: 265-192-2	Solvent naphtha (petroleum), light aliph. 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.

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

Printing date 23.05.2012

Version number 2

Revision: 25.11.2010

Trade name: B1390 BOYSEN LACQUER TINTING COLOR BLACK

(Contd. of page 3)

- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **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:** Store in a cool location.
- **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

Printing date 23.05.2012

Version number 2

Revision: 25.11.2010

Trade name: B1390 BOYSEN LACQUER TINTING COLOR BLACK

(Contd. of page 4)

Store in cool, dry conditions in well sealed receptacles.

· **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:**

123-86-4 n-butyl acetate	
PEL (USA)	710 mg/m ³ , 150 ppm
REL (USA)	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm
TLV (USA)	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 713 mg/m ³ , 150 ppm
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
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
110-80-5 2-ethoxyethanol	
PEL (USA)	740 mg/m ³ , 200 ppm Skin
REL (USA)	1.8 mg/m ³ , 0.5 ppm Skin
TLV (USA)	18 mg/m ³ , 5 ppm Skin; BEI
67-64-1 acetone	
PEL (USA)	2400 mg/m ³ , 1000 ppm
REL (USA)	590 mg/m ³ , 250 ppm
TLV (USA)	Short-term value: 1782 mg/m ³ , 750 ppm Long-term value: 1188 mg/m ³ , 500 ppm BEI
IOELV (EU)	1210 mg/m ³ , 500 ppm

(Contd. on page 6)

PH

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.05.2012

Version number 2

Revision: 25.11.2010

Trade name: B1390 BOYSEN LACQUER TINTING COLOR BLACK

(Contd. of page 5)

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.

· **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 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

PH

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.05.2012

Version number 2

Revision: 25.11.2010

Trade name: B1390 BOYSEN LACQUER TINTING COLOR BLACK

(Contd. of page 6)

9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Fluid
Colour:	According to product specification
· Odour:	Characteristic
· Change in condition	
Melting point/Melting range: Undetermined.	
Boiling point/Boiling range: 55°C	
· Flash point:	-19°C
· Ignition temperature:	235°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:	12.0 Vol %
· Vapour pressure at 20°C:	43 hPa
· Density:	1.00 - 1.20 Kg/L
· Solubility in / Miscibility with water:	
Not miscible or difficult to mix.	
· Solvent content:	
Organic solvents:	56.3 %
VOC (EC)	690 g/L
Solids content:	43.7 %
· 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.

PH

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.05.2012

Version number 2

Revision: 25.11.2010

Trade name: B1390 BOYSEN LACQUER TINTING COLOR BLACK

(Contd. of page 7)

11 Toxicological information

· **Information on toxicological effects**

· **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)
110-80-5 2-ethoxyethanol		
Oral	LD50	3000 mg/kg (rat)
Dermal	LD50	3300 mg/kg (rabbit)
Inhalative	LC50/4 h	2000 mg/l (rat)

· **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.

· **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.

· **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.

(Contd. on page 9)

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

Printing date 23.05.2012

Version number 2



Revision: 25.11.2010

Trade name: B1390 BOYSEN LACQUER TINTING COLOR BLACK

(Contd. of page 8)

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number	1993
· ADR, IMDG, IATA	
· UN proper shipping name	1993 FLAMMABLE LIQUID, N.O.S. (ACETONE, TOLUENE), special provision 640D
· ADR	
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (ACETONE, TOLUENE)
· Transport hazard class(es)	
· ADR	
	
· Class	3 (F1) Flammable liquids.
· Label	3
· IMDG, IATA	
	
· Class	3 Flammable liquids.
· Label	3
· Packing group	II
· ADR, IMDG, IATA	
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids.
· Danger code (Kemler):	33
· EMS Number:	F-E, S-E
· Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Tunnel restriction code	D/E
· UN "Model Regulation":	UN1993, FLAMMABLE LIQUID, N.O.S., 3, II

PH

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.05.2012

Version number 2

Revision: 25.11.2010

Trade name: B1390 BOYSEN LACQUER TINTING COLOR BLACK

(Contd. of page 9)

15 Regulatory information

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

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

All ingredients are listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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 phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- H350 May cause cancer.
- H360FD May damage fertility. May damage the unborn child.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
-
- R10 Flammable.
- R11 Highly flammable.
- R20/21 Harmful by inhalation and in contact with skin.
- R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- R36 Irritating to eyes.
- R38 Irritating to skin.
- R45 May cause cancer.
- R46 May cause heritable genetic damage.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R60 May impair fertility.
- R61 May cause harm to the unborn child.
- R63 Possible risk of harm to the unborn child.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

· 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
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)

(Contd. on page 11)

PH

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

Printing date 23.05.2012

Version number 2

Revision: 25.11.2010

Trade name: B1390 BOYSEN LACQUER TINTING COLOR BLACK

(Contd. of page 10)

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.**

25.11.2010

PH