

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

Printing date 09.12.2010

Revision: 09.12.2010

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

- **Product details**

- **Trade name:** *Yamaha Bluish Grey Metallic*

- **Article number:** *YMM-30400-GM-00*

- **Application of the substance / the preparation** *Lacquer*

- **Manufacturer/Supplier:**

*Yamaha Motor Europe NV
Koolhovenlaan 101
1119 NC SCHIPHOL-RIJK
The Netherlands*

Tel.: +31 (0) 20 654 6000

Fax +31 (0) 20 654 6888

- **Further information obtainable from:** *QHSE Department*

- **Information in case of emergency:** *Tel.: +31 (0) 20 654 6000*

2 Hazards identification

- **Classification of the substance or mixture**

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



GHS02 flame

Flam. Aerosol 1 H222 Extremely flammable aerosol.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

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



Xi; Irritant

R36: Irritating to eyes.



F+; Extremely flammable

R12: Extremely flammable.

R52/53-66-67: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. 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.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Warning! Pressurized container.

Has a narcotizing effect.

- **Classification system:**

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

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- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard pictograms**



GHS02 GHS05

- **Signal word** *Danger*

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

butan-1-ol

- **Hazard statements**

*H222 Extremely flammable aerosol.**H318+EUH066 Causes serious eye damage. Repeated exposure may cause skin dryness or cracking.**Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.**Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.**Buildup of explosive mixtures possible without sufficient ventilation.**Keep out of the reach of children*

- **Precautionary statements**

*P101 If medical advice is needed, have product container or label at hand.**P102 Keep out of reach of children.**P103 Read label before use.**P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.**P251 Pressurized container: Do not pierce or burn, even after use.**P211 Do not spray on an open flame or other ignition source.**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P310 Immediately call a POISON CENTER or doctor/physician.**P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.*

- **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:**

*Xi Irritant**F+ Extremely flammable*

- **Risk phrases:**

*12 Extremely flammable.**36 Irritating to eyes.**52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**66 Repeated exposure may cause skin dryness or cracking.**67 Vapours may cause drowsiness and dizziness.*

- **Safety phrases:**

*2 Keep out of the reach of children.**23 Do not breathe aerosol.**26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.**29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.**46 If swallowed, seek medical advice immediately and show this container or label.**51 Use only in well-ventilated areas.*

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· **Special labelling of certain preparations:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Buildup of explosive mixtures possible without sufficient ventilation.



Keep out of the reach of children.

3 Composition/information on ingredients

· **Chemical characterization**

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

· **Dangerous components:**

CAS: 115-10-6 EINECS: 204-065-8	dimethyl ether  F+ R12  Flam. Gas 1, H220;  Press. Gas, H280	12.5-20%
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	12.5-20%
CAS: 74-98-6 EINECS: 200-827-9	propane  F+ R12  Flam. Gas 1, H220;  Press. Gas, H280	5-10%
CAS: 106-97-8 EINECS: 203-448-7	butane  F+ R12  Flam. Gas 1, H220;  Press. Gas, H280	5-10%
CAS: 75-28-5 EINECS: 200-857-2	isobutane  F+ R12  Flam. Gas 1, H220;  Press. Gas, H280	5-10%
CAS: 78-93-3 EINECS: 201-159-0	butanone  Xi R36;  F R11 R66-67  Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3, H336	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	5-10%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate R10  Flam. Liq. 3, H226;  Eye Irrit. 2, H319	5-10%
CAS: 141-78-6 EINECS: 205-500-4	ethyl acetate  Xi R36;  F R11 R66-67  Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3, H336	2.5-5%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom.  Xn R65;  Xi R37;  N R51/53 R10-66-67 Carc. Cat. 2, Muta. Cat. 2  Asp. Tox. 1, H304	2.5-5%

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CAS: 71-36-3 EINECS: 200-751-6	butan-1-ol Xn R22; Xi R37/38-41 R10-67 Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; STOT SE 3, H335+H336; Skin Irrit. 2, H315	2.5-5%
CAS: 123-86-4 EINECS: 204-658-1	n-butyl acetate R10-66-67 Flam. Liq. 3, H226; STOT SE 3, H336	2.5-5%
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	1-2.5%

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

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

5 Firefighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Ensure adequate ventilation
- **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:** Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
No special measures required.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

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- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Protect from heat and direct sunlight.

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:**

115-10-6 dimethyl ether

WEL () Short-term value: 958 mg/m³, 500 ppm
Long-term value: 766 mg/m³, 400 ppm

67-64-1 acetone

WEL () Short-term value: 3620 mg/m³, 1500 ppm
Long-term value: 1210 mg/m³, 500 ppm

106-97-8 butane

WEL () Short-term value: 1810 mg/m³, 750 ppm
Long-term value: 1450 mg/m³, 600 ppm
Carc (if more than 0.1% of buta-1.3-diene)

78-93-3 butanone

WEL () Short-term value: 899 mg/m³, 300 ppm
Long-term value: 600 mg/m³, 200 ppm
Sk

1330-20-7 xylene

WEL () Short-term value: 441 mg/m³, 100 ppm
Long-term value: 220 mg/m³, 50 ppm
Sk; BMGV

108-65-6 2-methoxy-1-methylethyl acetate

WEL () Short-term value: 548 mg/m³, 100 ppm
Long-term value: 274 mg/m³, 50 ppm
Sk

141-78-6 ethyl acetate

WEL () Short-term value: 400 ppm
Long-term value: 200 ppm

71-36-3 butan-1-ol

WEL () Short-term value: 154 mg/m³, 50 ppm
Sk

123-86-4 n-butyl acetate

WEL () Short-term value: 966 mg/m³, 200 ppm
Long-term value: 724 mg/m³, 150 ppm

67-63-0 propan-2-ol

WEL () Short-term value: 1250 mg/m³, 500 ppm
Long-term value: 999 mg/m³, 400 ppm

- **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.

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- Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 Do not inhale gases / fumes / aerosols.
 Avoid contact with the eyes.
 Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.
 - **Protection of hands:** Not required.
 - **Material of gloves:** Not required.
 - **Penetration time of glove material:** Not required.
 - **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **General Information**

· **Appearance:**

- Form:** Aerosol
Colour: According to product specification
Odour: Characteristic

· **Change in condition**

- Melting point/Melting range:** Undetermined.
Boiling point/Boiling range: Not applicable, as aerosol.

- **Flash point:** < 0°C (< 32°F)
 Not applicable, as aerosol.

- **Ignition temperature:** 235°C (455°F)

- **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:** 2.6 Vol %
Upper: 18.6 Vol %

- **Vapour pressure at 20°C (68°F):** 4000 hPa (3000 mm Hg)

- **Density at 20°C (68°F):** 0.754 g/cm³ (6.292 lbs/gal)

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

· **Solvent content:**

- Organic solvents:** 88.2 %
EU-VOC: 665.3 g/l
EU-VOC in %: 88.24 %

- **Solids content:** 11.8 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:**
- **Dangerous reactions:** No dangerous reactions known.

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

11 Toxicological information

· **Acute toxicity:**· **LD/LC50 values relevant for classification:****115-10-6 dimethyl ether**LC50 / 4 h 308 mg/m³ (rat)**67-64-1 acetone**

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)
	LC50 / 4 h	39 mg/m ³ (rat)

106-97-8 butaneLC50 / 4 h 658 mg/m³ (rat)**78-93-3 butanone**

Oral	LD50	2737 mg/kg (rat)
Dermal	LD50	6480 mg/kg (rabbit)
	LC50 / 4 h	34 mg/m ³ (rat)

1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
	LC50 / 4 h	22.1 mg/m ³ (rat)

108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8532 mg/kg (rat)
Dermal	LD50	> 5000 mg/kg (rabbit)
	LC50 / 4 h	35.7 mg/m ³ (rat)

141-78-6 ethyl acetate

Oral	LD50	5620 mg/kg (rabbit)
Dermal	LD50	> 18000 mg/kg (rabbit)
	LC50 / 4 h	1600 mg/m ³ (rat)

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 3000 mg/kg (rab)
	LC50 / 4 h	> 15 mg/m ³ (rat)

71-36-3 butan-1-ol

Oral	LD50	4400 mg/kg (rat)
Dermal	LD50	4200 mg/kg (rabbit)
	LC50 / 4 h	25 mg/m ³ (rat)

123-86-4 n-butyl acetate

Oral	LD50	10770 mg/kg (rat)
Dermal	LD50	> 17600 mg/kg (rabbit)
	LC50 / 4 h	> 21.0 mg/m ³ (rat)

67-63-0 propan-2-ol

Oral	LD50	5045 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rabbit)
	LC50 / 4 h	30 mg/m ³ (rat)

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- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **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:
Irritant

12 Ecological information

- **Ecotoxicological effects:**

- **Acquatic toxicity:**

115-10-6 dimethyl ether

EC50 / 48 h	>4000 mg/l (daphnia magna)
-------------	----------------------------

67-64-1 acetone

EC50 / 48 h	39 mg/l (daphnia magna)
LC50 / 48 h	2262 mg/l (daphnia magna)
LC50 / 96 h (static)	5540 mg/l (fish)

1330-20-7 xylene

EC50 / 48 h	7.4 mg/l (daphnia magna)
LC50 / 96 h	13.5 mg/l (fish)

108-65-6 2-methoxy-1-methylethyl acetate

EC50	408 mg/l (daphnia magna)
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141-78-6 ethyl acetate

EC50 / 24 h	2500 mg/l (daphnia magna)
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64742-95-6 Solvent naphtha (petroleum), light arom.

EC50 / 24 h	150 mg/l (daphnia magna)
EC50 / 48 h	7.4 mg/l (daphnia magna)
LC50 / 96 h	3.77 mg/l (fish)

71-36-3 butan-1-ol

EC50 / 48 h	1983 mg/l (daphnia magna)
EC50 / 72 h	8500 mg/l (algae)

123-86-4 n-butyl acetate

EC50 / 96 h	320 mg/l (algae)
LC50 / 24 h	205 mg/l (daphnia magna)

67-63-0 propan-2-ol

EC50 / 48 h	13299 mg/l (daphnia magna)
LC50 / 96 h (dynamic)	4200 mg/l (fish)

- **Remark:** Harmful to fish
- **Additional 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.
Harmful to aquatic organisms

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13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
15 01 04	metallic packaging

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

14 Transport information

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



- **ADR/RID class:** 2 5F Gases.
- **Danger code (Kemler):** -
- **UN-Number:** 1950
- **Packaging group:** -
- **Hazard label** 2.1
- **Description of goods:** 1950 AEROSOLS
- **Limited quantities (LQ)** LQ2
- **Transport category** 2
- **Tunnel restriction code** D

- **Maritime transport IMDG:**



- **IMDG Class:** 2.1
- **UN Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Proper shipping name:** AEROSOLS

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



- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **Proper shipping name:** AEROSOLS, flammable

- **UN "Model Regulation":** UN1950, AEROSOLS, 2.1

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15 Regulatory information

- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard pictograms**



GHS02 GHS05

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**
butan-1-ol
- **Hazard statements**

H222 *Extremely flammable aerosol.*

H318+EUH066 *Causes serious eye damage. Repeated exposure may cause skin dryness or cracking.*

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Buildup of explosive mixtures possible without sufficient ventilation.

Keep out of the reach of children

- **Precautionary statements**

P101 *If medical advice is needed, have product container or label at hand.*

P102 *Keep out of reach of children.*

P103 *Read label before use.*

P210 *Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*

P251 *Pressurized container: Do not pierce or burn, even after use.*

P211 *Do not spray on an open flame or other ignition source.*

P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

P310 *Immediately call a POISON CENTER or doctor/physician.*

P410+P412 *Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F.*

- **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:**

*Xi Irritant**F+ Extremely flammable*

- **Risk phrases:**

12 *Extremely flammable.*

36 *Irritating to eyes.*

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

66 *Repeated exposure may cause skin dryness or cracking.*

67 *Vapours may cause drowsiness and dizziness.*

- **Safety phrases:**

2 *Keep out of the reach of children.*

23 *Do not breathe aerosol.*

26 *In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*

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

46 *If swallowed, seek medical advice immediately and show this container or label.*

51 *Use only in well-ventilated areas.*

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- **Special labelling of certain preparations:**
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material.
Buildup of explosive mixtures possible without sufficient ventilation.
Keep out of the reach of children.
- **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**

- H220 *Extremely flammable gas.*
- H225 *Highly flammable liquid and vapour.*
- H226 *Flammable liquid and vapour.*
- H280 *Contains gas under pressure; may explode if heated.*
- H302 *Harmful if swallowed.*
- H304 *May be fatal if swallowed and enters airways.*
- H312 *Harmful in contact with skin.*
- H315 *Causes skin irritation.*
- H318 *Causes serious eye damage.*
- H319 *Causes serious eye irritation.*
- H332 *Harmful if inhaled.*
- H335 *May cause respiratory irritation.*
- H336 *May cause drowsiness or dizziness.*
- R10 *Flammable.*
- R11 *Highly flammable.*
- R12 *Extremely flammable.*
- R20/21 *Harmful by inhalation and in contact with skin.*
- R22 *Harmful if swallowed.*
- R36 *Irritating to eyes.*
- R37 *Irritating to respiratory system.*
- R37/38 *Irritating to respiratory system and skin.*
- R38 *Irritating to skin.*
- R41 *Risk of serious damage to eyes.*
- 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.*

- **Department issuing MSDS: QHSE Department**

- **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*
- LC50: *Lethal concentration, 50 percent*
- LD50: *Lethal dose, 50 percent*

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

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