

**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 Zinc Primer

· **Article number:** YMM-30400-ZP-00

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

· **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.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

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



F+; Extremely flammable

R12: Extremely flammable.



N; Dangerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R66-67: 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.

(Contd. on page 2)

GB

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.12.2010

Revision: 09.12.2010

Trade name: Yamaha Zinc Primer

(Contd. of page 1)

· **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 Regulation (EC) No 1272/2008**

· **Hazard pictograms**



GHS02    GHS07    GHS09

· **Signal word** *Danger*

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

*2-butanone oxime*

· **Hazard statements**

H222                    *Extremely flammable aerosol.*

H319+EUH066       *Causes serious eye irritation. Repeated exposure may cause skin dryness or cracking.*

H400                    *Very toxic to aquatic life.*

H410                    *Very toxic to aquatic life with long lasting effects.*

*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.*

*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.*

P410+P412           *Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.*

P501                    *Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **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:**



*F+ Extremely flammable*

*N Dangerous for the environment*

· **Risk phrases:**

12                    *Extremely flammable.*

50/53                *Very toxic 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.*

(Contd. on page 3)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 09.12.2010

Revision: 09.12.2010

**Trade name: Yamaha Zinc Primer**

(Contd. of page 2)

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.

**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.


















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: 7440-66-6 EINECS: 231-175-3	zinc powder -zinc dust (stabilized)  N R50/53  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	25-50%
CAS: 115-10-6 EINECS: 204-065-8	dimethyl ether  F+ R12  Flam. Gas 1, H220;  Press. Gas, H280	25-50%
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	10-12.5%
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	10-12.5%
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	2.5-5%

**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. Then consult a doctor.

**After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

### 5 Firefighting measures

**Suitable extinguishing agents:**

CO<sub>2</sub>, 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.

GB

(Contd. on page 4)

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

Printing date 09.12.2010

Revision: 09.12.2010

Trade name: **Yamaha Zinc Primer**

(Contd. of page 3)

**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.
- **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.

<b>Ingredients with limit values that require monitoring at the workplace:</b>	
<b>115-10-6 dimethyl ether</b>	
WEL ()	Short-term value: 958 mg/m <sup>3</sup> , 500 ppm Long-term value: 766 mg/m <sup>3</sup> , 400 ppm
<b>67-64-1 acetone</b>	
WEL ()	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
<b>1330-20-7 xylene</b>	
WEL ()	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV

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

- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.
- **Respiratory protection:** Not required.
- **Protection of hands:** Not required.
- **Material of gloves:** Not required.

(Contd. on page 5)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 09.12.2010

Revision: 09.12.2010

Trade name: **Yamaha Zinc Primer**

(Contd. of page 4)

- **Penetration time of glove material** Not required.
- **Eye protection:** Not required.

### 9 Physical and chemical properties

#### · General Information

##### · Appearance:

· <b>Form:</b>	Aerosol
· <b>Colour:</b>	According to product specification
· <b>Odour:</b>	Characteristic

#### · Change in condition

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	Not applicable, as aerosol.

· <b>Flash point:</b>	< 0°C (< 32°F) Not applicable, as aerosol.
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· <b>Ignition temperature:</b>	235°C (455°F)
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· <b>Self-igniting:</b>	Product is not selfigniting.
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· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
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#### · Explosion limits:

· <b>Lower:</b>	0.7 Vol %
· <b>Upper:</b>	18.6 Vol %

· <b>Vapour pressure at 20°C (68°F):</b>	4000 hPa (3000 mm Hg)
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· <b>Density at 20°C (68°F):</b>	1.172 g/cm <sup>3</sup> (9.78 lbs/gal)
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· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
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#### · Solvent content:

· <b>Organic solvents:</b>	54.5 %
· <b>EU-VOC:</b>	666.3 g/l
· <b>EU-VOC in %:</b>	56.85 %

· <b>Solids content:</b>	45.5 %
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### 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.
- **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/m <sup>3</sup> (rat)
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###### 64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>5000 mg/kg (rat)
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(Contd. on page 6)

GB

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

Printing date 09.12.2010

Revision: 09.12.2010

**Trade name: Yamaha Zinc Primer**

(Contd. of page 5)

Dermal	LD50	>3000 mg/kg (rab)
	LC50 / 4 h	>15 mg/m <sup>3</sup> (rat)
<b>67-64-1 acetone</b>		
Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)
	LC50 / 4 h	39 mg/m <sup>3</sup> (rat)
<b>1330-20-7 xylene</b>		
Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
	LC50 / 4 h	22.1 mg/m <sup>3</sup> (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

## 12 Ecological information

- **Ecotoxicological effects:**

- **Aquatic toxicity:**

### 7440-66-6 zinc powder -zinc dust (stabilized)

EC50 / 48 h	2.8 mg/l (daphnia magna)
LC50 / 96 h	0.57 mg/l (daphnia magna)

### 115-10-6 dimethyl ether

EC50 / 48 h	>4000 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)

### 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)

- **Remark:** Very toxic for 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.  
Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms

## 13 Disposal considerations

- **Product:**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)

GB

**Safety data sheet**  
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Trade name: **Yamaha Zinc Primer**

(Contd. of page 6)

· **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:** Yes
- **Proper shipping name:** AEROSOLS (zinc powder -zinc dust (stabilized), Solvent naphtha (petroleum), light arom.)

· **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

GB

(Contd. on page 8)



**Trade name: Yamaha Zinc Primer**

(Contd. of page 7)

## 15 Regulatory information

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



GHS02    GHS07    GHS09

- **Signal word** *Danger*

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

2-butanone oxime

- **Hazard statements**

H222                      *Extremely flammable aerosol.*

H319+EUH066 *Causes serious eye irritation. Repeated exposure may cause skin dryness or cracking.*

H400                      *Very toxic to aquatic life.*

H410                      *Very toxic to aquatic life with long lasting effects.*

*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.*

*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.*

P410+P412              *Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.*

P501                      *Dispose of contents/container in accordance with local/regional/national/international regulations.*

- **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:**



F+ *Extremely flammable*

N *Dangerous for the environment*

- **Risk phrases:**

12    *Extremely flammable.*

50/53 *Very toxic 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.*

(Contd. on page 9)

GB



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

Printing date 09.12.2010

Revision: 09.12.2010

**Trade name: Yamaha Zinc Primer**

(Contd. of page 8)

51 Use only in well-ventilated areas.

- **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.

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.

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.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

R10 Flammable.

R11 Highly flammable.

R12 Extremely flammable.

R20/21 Harmful by inhalation and in contact with skin.

R36 Irritating to eyes.

R37 Irritating to respiratory system.

R38 Irritating to skin.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.**

GB