

MATERIAL SAFETY DATA SHEET

Marlin Metal Primer



MSDS revision no. 040511 US
MSDS revision date 5-Apr-2011

1. Identification

Product name **METAL PRIMER**
Product use **Primer for metallic parts, to be used before antifouling VELOX PLUS**

Company Name **MARLIN Srl**
Contact Information **Via Caduti sul Lavoro 4 (Noghere) Trieste, Italy**
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Emergency numbers **Poisons Information**
Australia **Center 13 11 26**
Emergency 000

Transport

Shipping Name Paint **Packing Group** 3
Hazchem 3YE **ID No** UN 1263

2. Hazards identification

Overview

Hazchem 3YE. Corrosive to the eye. May cause irreversible damage. Harmful if swallowed, inhaled or absorbed through the skin. Toxic to fish and aquatic invertebrates. Combustible liquid.

Potential Health Effects

Ingestion Harmful if swallowed.
Inhalation Harmful if inhaled. May cause respiratory tract irritation.
Chronic Contains titanium dioxide which is a potential carcinogen (NIOSH)

HMIS Ratings

Health 3* Flammability 2 Reactivity 0

3. Hazardous ingredients

Ingredient	CAS No.	Weight %	Source	Exposure Limits
Propylene glycol monomethyl ether acetate	108-65-6	45-80	AIHA (WEEL)	50 ppm
Titanium dioxide	13463-67-7	0-15	ACGIH TLV OSHA PEL	10 mg/m ³ 15 mg/m ³

4. First aid measures

Hazchem category 3YE. In all cases of doubt, or when symptoms persist, seek medical attention. For emergency information on this product call Boat Paints, Gary Martin 0408 722 149. For poisons Information call Poisons Information Hotline 24 Hrs on 13 11 26. In case of emergency call 000.

General

Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eye contact

Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart. Seek medical attention immediately.

Skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

NOTE to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

5. Fire-fighting measures

103° F (39° C)

Flash Point

Alcohol resistant foam, CO₂ powder, water spray. Water jet

Recommended Do not use

NOTE: Fire will produce dense black smoke. Decomposition products may be hazardous to health and may include carbon monoxide, carbon dioxide, oxides of nitrogen and sulfur, and metal oxides . Avoid exposure and use breathing apparatus as appropriate. Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or waterways.

6. Accidental release measures

Remove all sources of ignition in the immediate area. Do not turn lights or unprotected electrical equipment on or off. Do not smoke.

In case of a major spill or spillage in a confined space evacuate the area and check that solvent vapour levels are below the Lower Explosive Limit (LEL)* before reentering. Ventilate the area and avoid breathing vapours. Wear the personal protective equipment listed in section 8. Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of in accordance with local, state, and federal regulations.

Clean affected area, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or waterways. If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes, state and federal environmental agencies should also be informed.

*LEL of solvent is 1.5% (v/v)

7. Handling and storage

Handling

This coating contains solvents. Solvent vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Areas of storage, preparation and application should be ventilated to prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentrations higher than occupational exposure limits.

Handle containers carefully to prevent damage and spillage. Open flames and smoking should not be permitted in storage areas. Avoid skin and eye contact. Avoid inhalation of vapors and spray mists. Observe label precautions. Use personal protection as shown in section 8.

Smoking, eating and drinking should be prohibited in all preparation and application areas. Never use pressure to empty a container; the containers are not pressure vessels.

All sources of ignition (hot surfaces, sparks, open flames etc) should be excluded from areas of preparation and application.

All electrical equipment (including torches) should be protected to the appropriate standard.

The product may charge electrostatically. Always use grounded leads when pouring solvents and transferring product.

Operators should wear clothing which does not generate static (at least 60% natural fiber) and antistatic footwear; floors should be of conducting type.

Activities such as sanding, burning off etc. of paint films may generate dust and/or fumes hazardous to the skin and lungs.

Work in well ventilated areas. Use local exhaust ventilation and personal skin and respiratory protective equipment as appropriate.

Storage Store in a well ventilated, dry place away from sources of heat and direct sunlight. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in the original container or one of the same material. Prevent unauthorized access.

8. Exposure control and personal protection

Engineering Measures Provide adequate ventilation to prevent vapor and dust build-up. Where practical, this should be achieved by the use of local exhaust ventilation or open windows and doors to provide cross-ventilation. If these are not sufficient to maintain concentrations of particulates and vapors below occupational exposure limits, suitable respiratory protection must be worn. Emergency eye wash fountains should also be available.

Respiratory Protection Wear appropriate respirators approved for pesticides (MSHA/NIOSH T-23C or TC-14G) or in accordance with Directive 89/656/EEC and the Personal Protection Equipment Regulations.

Eye Protection Wear safety eyewear, e.g. safety glasses with side protection, goggles or face shield to protect against the splash of liquids.

Hand Protection Wear nitrile rubber gloves during mixing and application.

Skin Protection Wear overalls which cover the body, arms and legs. Skin should not be exposed.

9. Physical and chemical properties

Physical state	Liquid	Flash point	103° F (39° C)
Colour	Green	Specific gravity	1.2-1.3
Odour	of solvents	Solubility in water	Insoluble
pH	non aqueous	Viscosity	72 KU

10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7). Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid possible exothermic reactions. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, oxides of nitrogen and sulfur, and smoke.

11. Toxicological information

Acute Toxicities

Ingredient	Oral LD50	Dermal LD50	Inhalation LD50
Propylene glycol monomethyl ether acetate	8,532 mg/kg (rat)	>5,000 mg/kg (rabbit)	>10.8 mg/L (rat)
Titanium dioxide	>10,000 mg/kg (rat)	>10,000 mg/kg (rabbit)	>6.8 mg/L (rat)

Carcinogenicity

Titanium dioxide has been characterized by IARC as possibly carcinogenic to humans (Group 2B) through inhalation (not ingestion). This classification is based on animal inhalation studies. Epidemiology studies do not suggest an increased risk of cancer in humans.

12. Ecological information

No information is available on the product itself. Do not allow into drains or waterways. Wastes and empty containers should be disposed of in accordance with federal, state and local regulations.

13. Disposal considerations

Do not allow into drains or waterways. Wastes and empty containers should be disposed of in accordance with federal, state and local regulations.

14. Transport information

3YE

Hazchem Category

PAINT

ID Number

UN1263

DOT Classification

3

Packing group

III

Proper Shipping Name

Hazard Class

15. Regulatory information

U.S. Federal Regulations

This product is considered to be a hazardous chemical under OSHA's Hazard Communication Standard 29 CFR 1910.1200.

OSHA

Designated Chemicals (CAS No.)

No chemicals in this product are present at reportable concentrations.

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SARA Title III

EPCRA Part 302

EPCRA Part 313

EPCRA Part 355