MARLIN SRL	MARLIN SRL	Revision nr. 2
C 2 # INA IT OF INSTANCES IN ROL WIRE THE INSEE THE TO		Dated 04/06/2015
	METAL PRIMER	Printed on 24/06/2015 Page n. 1/11
	Safety data sheet	
SECTION 1. Identification	n of the substance/mixture and of the compar	ny/undertaking
1.1. Product identifier Product name	METAL PRIMER	
1.2. Relevant identified uses of the Intended use Prim	e substance or mixture and uses advised against er	
1.3. Details of the supplier of the s	safatu data shaat	
Name Full address	MARLIN SRL Via Caduti sul Lavoro 4	
District and Country	34015 Muggia (TS) Italia	
	Tel. 040232588	
	Fax 040232688	
e-mail address of the competent per		
responsible for the Safety Data Shee	et information@marlinpaint.com	
1.4. Emergency telephone number For urgent inquiries refer to	+39 040 232588	
SECTION 2. Hazards iden	tification.	

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:
Flammable liquid, category 3

H226

Flammable liquid and vapour.

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.



Signal words:

Warning

Hazard statements:

MARLIN SRL Market	MARLIN SRL	Revision nr. 2
		Dated 04/06/2015
	METAL PRIMER	Printed on 24/06/2015
		Page n. 2/11

H226

Flammable liquid and vapour.

Precautionary statements:

P102 P210	Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P280	Wear protective gloves / eye protection / face protection.
P501	Dispose of contents / container according to local legislation.

2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

Identification.	Conc. %.	
2-METHOXY-1-METHYLETHYL ACETATE		
CAS. 108-65-6	50 - 75	Flam. Liq. 3 H226
EC. 203-603-9		
INDEX. 607-195-00-7		

Note: Upper limit is not included into the range.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures.

4.1. Description of first aid measures.

No episodes of harm to the staff authorised to use the product have been reported. The following general measures should be adopted as necessary: INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention. INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Do not give anything by mouth to an unconscious person. EYES and SKIN: Wash with plenty of water. In the event of persistent irritation, get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed.

No episodes of damage to health ascribable to the product have been reported.

4.3. Indication of any immediate medical attention and special treatment needed.



METAL PRIMER

Revision nr. 2

Dated 04/06/2015 Printed on 24/06/2015

Page n. 3/11

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.



METAL PRIMER

Revision nr. 2

Dated 04/06/2015 Printed on 24/06/2015

Page n. 4/11

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

AUS	Österreich	Grenzwerteverordnung 2011 - GKV 2011
BEL	Belgique	AR du 11/3/2002. La liste est mise à jour pour 2010
CYP	Κύπρος	К.Δ.П. 268/2001; К.Δ.П. 55/2004; К.Δ.П. 295/2007; К.Δ.П. 70/2012
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en
		España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GRB	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9
		Φεβρουαρίου 2012
IRL	Éire	Code of Practice Chemical Agent Regulations 2011
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC;
		Directive 2000/39/EC.

2-METHOXY-1-METHYLET	HYL ACETATE			
Threshold Limit Value.				
Туре	Country	TWA/8h	STEL/15min	



METAL PRIMER

Revision nr. 2

Dated 04/06/2015 Printed on 24/06/2015

Page n. 5/11

		mg/m3	ppm	mg/m3	ppm		
MAK	AUS	275	50	550	100	SKIN.	
VLEP	BEL	275	50	550	100	SKIN.	
TLV	CYP	275	50	550	100	SKIN.	
AGW	DEU	270	50	270	50		
MAK	DEU	270	50	270	50		
VLA	ESP	275	50	550	100	SKIN.	
VLEP	FRA	275	50	550	100	SKIN.	
WEL	GRB	274	50	548	100		
TLV	GRC	275	50	550	100		
OEL	IRL	275	50	550	100	SKIN.	
TLV	ITA	275	50	550	100	SKIN.	
OEL	EU	275	50	550	100	SKIN.	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.



METAL PRIMER

Revision nr. 2

Dated 04/06/2015 Printed on 24/06/2015

Page n. 6/11

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance Colour Odour Odour threshold. pH. Melting point / freezing point. Initial boiling point. Boiling range. Flash point. Evaporation rate Flammability (solid, gas)	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	1,250 Kg/l
Solubility	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information.

Solid content.	9,00 %	
VOC (Directive 1999/13/EC) :	55,00 % - 702,00	g/litre.
VOC (volatile carbon) :	28,87 % - 360,93	g/litre.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

1-METHOXY-2-PROPANOL ACETATE: stable but with the air it may slowly develop peroxides that explode with an increase in temperature.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

1-METHOXY-2-PROPANOL ACETATE: may react violently with oxidising agents and strong acids and alkaline metals.



Revision nr. 2

METAL PRIMER

Dated 04/06/2015 Printed on 24/06/2015

Page n. 7/11

10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

1-METHOXY-2-PROPANOL ACETATE: store in an inert atmosphere, sheletered from moisture because it hydrolises easily.

10.5. Incompatible materials.

1-METHOXY-2-PROPANOL ACETATE: oxidising agents, strong acids and alkaline metals.

10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

SECTION 11. Toxicological information.

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled carefully according to good industrial practices. This product may have slight health effects on sensitive people, by inhalation and/or cutaneous absorption and/or contact with eyes and/or ingestion.

11.1. Information on toxicological effects.

1-METHOXY-2-PROPANOL ACETATE: the main way of entry is the skin, whereas the respiratory way is less important owing to the low vapour tension of the product. Concentrations above 100 ppm cause eye irritation, nose and oropharynx. At 1000 ppm disturbance in the equilibrium and severe eye irritation is observed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and ocular irritation on direct contact. No chronic effects have been reported in man.

TITANIUM DIOXIDE LD50 (Oral).> 10000 mg/kg Rat

2-METHOXY-1-METHYLETHYL ACETATE LD50 (Oral).8530 mg/kg Rat LD50 (Dermal).> 5000 mg/kg Rat

SECTION 12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

12.1. Toxicity. Information not available.

12.2. Persistence and degradability.

MARLIN SRL Va Cate du Loro VSC Magachardon 199 Cate Cate Cate Cate Cate Cate Cate Cate	MARLIN SRL	Revision nr. 2
nou informatiogleadings on Incl. News 15 N (460 TBB 15		Dated 04/06/2015
	METAL PRIMER	Printed on 24/06/2015 Page n. 8/11
	<u> </u>	
TITANIUM DIOXIDE		
Solubility in water.	< 0,001 mg/l	
Biodegradability: Information not availa	able.	
2-METHOXY-1- METHYLETHYL ACETATE Solubility in water.	> 10000 mg/l	
Rapidly biodegradable.	Ŭ	
12.3. Bioaccumulative potential.		
2-METHOXY-1- METHYLETHYL ACETATE Partition coefficient: n- octanol/water.	1,2	
12.4. Mobility in soil.		
Information not available.		
12.5. Results of PBT and vPvB as	sessment.	
On the basis of available data, the pro	duct does not contain any PBT or vPvB in percentage greater than	0,1%.
12.6. Other adverse effects.		
Information not available.		
SECTION 13. Disposal co	onsiderations.	
13.1. Waste treatment methods.		
evaluated according to applicable regu	in authorised waste management firm, in compliance with national a	
	overed or disposed of in compliance with national waste manageme	nt regulations.
SECTION 14. Transport i	nformation.	
14.1. UN number.		
ADR / RID, IMDG, IATA:	1263	

MARLIN SRL Victual at Leven XNSH Magarlawali, Ny Sangarlawali Angarlawali, Ny Sangarlawali Angarlawali, Ny Sangarlawali Angarlawali Angarlawali Sangarlawali Angarlawali Angarlawali Angarlawali Angarlawali Angarlawali Sangarlawali Angarlawali	MARLIN SRL	Revision nr. 2
	METAL PRIMER	Dated 04/06/2015 Printed on 24/06/2015 Page n. 9/11

14.2. UN proper shipping name.

ADR / RID:	PAINT or PAINT RELATED
	MATERIAL
IMDG:	PAINT or PAINT
	RELATED
	MATERIAL
IATA:	PAINT or PAINT
	RELATED
	MATERIAL

14.3. Transport hazard class(es).

ADR / RID:	Class: 3	Label: 3	*
IMDG:	Class: 3	Label: 3	No. 1
IATA:	Class: 3	Label: 3	

14.4. Packing group.

ADR / RID, IMDG,	
IATA:	

14.5. Environmental hazards.

ADR / RID: NO

14.6. Special precautions for user.

ADR / RID:	HIN - Kemler: 30 Special Provision: -	Limited Quantities 5 L	Tunnel restriction code (D/E)
	Special Flovision		
IMDG:	EMS: F-E, S-E,	Limited Quantities 5 L	
IATA:	Cargo:	Maximum quantity: 220	Packaging instructions: 366
	Pass.:	_ Maximum quantity: 60 L	Packaging instructions: 355
	Special Instructions:	A3, A72, A192	

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.

Ш

Information not relevant.

SECTION 15. Regulatory information.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

	MARLIN SRL	Revision nr. 2		
MARLIN SRL Victoria de Larro Jorin Magar (Travar Jor Arrando 2012 2016 - 10-2020 arrando 2012 - 10-2020 Arra				
		Dated 04/06/2015 Printed on 24/06/2015		
	METAL PRIMER	Page n. 10/11		
Seveso category.	6			
Seveso calegory.	0			
Restrictions relating to the product or o	contained substances pursuant to Annex XVII to EC Regulation 1907/2006.			
Product. Point.	3 - 40			
Substances in Candidate List (Art. 59	REACH).			
None.				
Substances subject to authorisarion (A	Annex XIV REACH).			
None.				
Substances subject to exportation repo	orting pursuant to (EC) Reg. 649/2012:			
None.				
Substances subject to the Rotterdam Convention:				
None.				
Substances subject to the Stockholm Convention:				
None.				
Healthcare controls.				
Information not available.				
15.2. Chemical safety assessment	15.2. Chemical safety assessment.			
No chemical safety assessment has b	een processed for the mixture and the substances it contains.			
SECTION 16. Other inform	mation.			
Text of hazard (H) indications mention	ed in section 2-3 of the sheet:			
Flam. Liq. 3 Flammab	le liquid, category 3			
H226 Flammab	ole liquid and vapour.			
LEGEND:				
- ADR: European Agreement concerning the carriage of Dangerous goods by Road - CAS NUMBER: Chemical Abstract Service Number				
- CE50: Effective concentration (required to induce a 50% effect) - CE NUMBER: Identifier in ESIS (European archive of existing substances)				

- CE NUMBER: Identifier in ESIS (European archive of existing substances)
 CLP: EC Regulation 1272/2008
 DNEL: Derived No Effect Level
 EmS: Emergency Schedule
 GHS: Globally Harmonized System of classification and labeling of chemicals
 IATA DGR: International Air Transport Association Dangerous Goods Regulation

	MARLIN SRL	Revision nr. 2		
WIARLIN SRL Via Cada at Luner 34070. Magai (horing), hay exist informatiogramma can be able to a second state exist informatiogramma can be able to a second state of the formation of the second state of the second state of the formation of the second state of the second state of the formation of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the secon				
		Dated 04/06/2015		
	METAL PRIMER	Printed on 24/06/2015		
		Page n. 11/11		
 IC50: Immobilization Concentration 5 IMDG: International Maritime Code for 				
- IMO: International Maritime Organiza	ation			
 INDEX NUMBER: Identifier in Annex LC50: Lethal Concentration 50% 	VI of CLP			
- LD50: Lethal dose 50%				
 OEL: Occupational Exposure Level PBT: Persistent bioaccumulative and 	toxic as REACH Regulation			
- PEC: Predicted environmental Conce	8			
- PEL: Predicted exposure level	41- m			
 PNEC: Predicted no effect concentra REACH: EC Regulation 1907/2006 	1011			
- RID: Regulation concerning the interr	national transport of dangerous goods by train			
 TLV: Threshold Limit Value TLV CEILING: Concentration that she 	ould not be exceeded during any time of occupational exposure.			
 TWA STEL: Short-term exposure limit 	it			
 TWA: Time-weighted average exposit VOC: Volatile organic Compounds 	ure limit			
- vPvB: Very Persistent and very Bioad				
- WGK: Water hazard classes (Germa	n).			
GENERAL BIBLIOGRAPHY				
1. Regulation (EU) 1907/2006 (REACH	H) of the European Parliament			
2. Regulation (EU) 1272/2008 (CLP) o	of the European Parliament			
 Regulation (EU) 790/2009 (I Atp. CL Regulation (EU) 453/2010 of the Eu 				
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament				
6. Regulation (EU) 618/2012 (III Atp. C 7. Regulation (EU) 487/2013 (IV Atp. C				
8. Regulation (EU) 944/2013 (V Atp. C				
9. Regulation (EU) 605/2014 (VI Atp. C	CLP) of the European Parliament			
- The Merck Index 10th Edition - Handling Chemical Safety				
- INRS - Fiche Toxicologique (toxicologi				
 Patty - Industrial Hygiene and Toxico N.I. Sax - Dangerous properties of In 				
- ECHA website				
Note for users: The information contained in the pres	sent sheet are based on our own knowledge on the date of the last version.	Users must verify the suitability and		
	according to each specific use of the product.	Users must verify the suitability and		
	as a guarantee on any specific product property.	any with the ourrest health and actaty		
	to our direct control; therefore, users must, under their own responsibility, com relieved from any liability arising from improper uses.	iply with the current health and safety		
Provide appointed staff with adequate training on how to use chemical products.				
Changes to previous review: The following sections were modified:				
01 / 02 / 06 / 08 / 12 / 14.				