Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

1. IDENTIFICATION

Product Name	:	Polyurethane Primer (PPU060)
Colors	:	Depending on pigmentation
Material Uses	:	Primer for Polyurethane Paint
Manufacturer	:	BMA Commercial and Industrial s.a.l Industrial Valley, Ain Saade Nahr El Mot 55091, North Metn Lebanon
Telephone Number	:	+961. 1. 885385 / 485
Emergency Phone Number	:	+961. 1. 885385 / 485
Fax Number	:	+961. 1. 885685
E-mail	:	info@bmapaints.com
Website	:	www.bmapaints.com

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Physical State	:	Liquid
Odor	:	No information available
Eyes	:	Direct contact can cause eye irritation
Skin	:	Causes skin irritation Repeated exposure may cause skin dryness and cracking
Inhalation	:	May cause respiratory irritation May cause drowsiness or dizziness
Additional Hazards	:	May cause cancer

Label Elements

Hazard Pictograms

Signal Word: **DANGER**

Hazard Statements

H226	:	Flammable liquid and vapour.
H315	:	Causes skin irritation.
H319	:	Causes serious eyes irritation.
H335	:	May cause respiratory irritation.
H336	:	May cause drowsiness or dizziness.
H350	:	May cause cancer.
EUH066	:	Repeated exposure may cause skin dryness or cracking.

Precautionary Statements

Prevention

P101	:	If medical advice is needed, have product container or label at hand.
P201	:	Obtain special instructions before use.
P210	:	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240	:	Ground/Bond container and receiving equipment.
P261	:	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	:	Use only outdoors or in a well-ventilated area.
P281	:	Use personal protective equipment as required.

Response

P312	:	Call a POISON CENTER or doctor/physician if you feel unwell.
P303 + P361 + P353:	:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P370 + P378	:	In case of fire: Use alcohol resistant foam or normal protein foam for extinction.

Storage

P403 + P235	:	Store in a well-ventilated place. Keep cool.
P405	:	Store locked up.

Disposal

P501	:	Dispose of contents/container in accordance with local regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	% by weight
Alkyd Resin	Proprietary	30.0 – 40.0
Xylene	1330-20-7	10.0 – 20.0
n-Butyl acetate	123-86-4	1.0 – 10.0
Bentonite	-	0 – 5.0
Ingredients determined not to be hazardous	-	To 100

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 Hazard Communication Standard.

4. FIRST-AID MEASURES

Eye Contact	:	Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully without rubbing eyes. Consult a physician if irritation persists.
Skin Contact	:	Remove contaminated clothing. Wash affected areas thoroughly with soap and water. Consult a physician in case of a lasting irritation.
Inhalation	:	Get medical advice immediately. Remove to fresh air, away from the accident scene and keep at rest in a position comfortable for breathing. If the subject stops breathing, administer artificial respiration.
Ingestion	:	Have the subject drink as much water as possible. Get medical advice immediately and show this SDS. Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Flammability of the Product	:	Classed as flammable.
Products of Combustion	:	Decomposition products may include the following materials: Carbon dioxide Carbon monoxide Nitrogen oxide/oxides
Suitable Extinguishing Media	:	Dry powder, CO_2 or foam.

Not Suitable Extinguishing Media	:	Do not use water jet. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.
Fire-Fighting	:	Highly flammable liquid. Keep containers cool with water spray. Keep storage tanks, pipelines, fire exposed surfaces etc. cool with water spray. Shut off any leak if safe to do so and remove sources of re-ignition. Vapour/air mixtures may ignite explosively and flashback along the vapour trail may occur. On burning will emit toxic fumes. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

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. Send away individuals who are not suitably equipped. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.
Environmental Precautions	:	The product must not penetrate into the sewer system or come into contact with surface water or ground water.
Methods and materials for containment and cleaning up	:	Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. 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. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

7. HANDLING AND STORAGE

Precautions for Safe Handling	:	Ensure that there is an adequate earthling system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash

		hands after use. Avoid leakage of the product into the environment. 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. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised.
Conditions for Safe Storage	:	Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details. Store in a well-ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with Workplace Control Parameters

Product name		**Exposure Limit**
Xylene	:	SG OEL - TWA: 100 ppm; 434 mg/m^3 SG OEL - STEL: 150 pm; 651 mg/m^3
n-Butyl acetate	:	ACGIH: 150 ppm TWA; 200 ppm STEL NIOSH: 150 ppm TWA; 710 mg/m^3 TWA; 1700 ppm IDLH OSHA – Final PELs: 150 ppm TWA; 710 mg/m^3 TWA

Exposure Controls

Respiratory Protection	:	Use only with adequate ventilation under engineered air control systems designed to prevent exceeding appropriate threshold value. For occasional use, where engineered air control is not feasible, use properly maintained and properly fitted approved respirator for organic solvent vapours. A dust mask does not provide protection against vapours.

Eye Protection	:	Use safety glasses to avoid exposure to liquid splashes.
Hand Protection	:	Wear impermeable protective gloves.
Body Protection	:	Wear suitable coveralls to prevent exposure to the skin.
Hygiene Measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid
Color	:	Depending on pigmentation.
Odor	:	Characteristic.
Odor Threshold	:	Not determined.
pH	:	Not applicable.
Melting point/freezing point	:	Not determined.
Initial Boiling Point and Boiling Range	:	Not determined.
Flash point	:	< 23 °C
Evaporation Rate	:	Not determined.
Flammability (solid, gas)	:	Flammable.
Explosive Limits	:	Not applicable.
Vapour Pressure (20 °C)	:	Not determined.
Vapour Density	:	Not determined.
Relative Density (g/cm³)	:	(1.4± 0.1)
Solubility in / Miscibility with water	:	Organic solvents.
Partition Coefficient: n-octanol/water	:	Not determined.
Auto-ignition Temperature	:	Not applicable.
Decomposition Temperature	:	Not determined.
Viscosity (25°C)	:	100 KU

10. STABILITY AND REACTIVITY

Stability and Reactivity	:	The product is stable in normal conditions of storage and recommended use.
Possibility of Hazardous Reactions	:	Reacts with strong acids and oxidising agents. Vapours may form explosive mixtures with air.
Hazardous Decomposition Products	:	As the product decomposes even at ambient temperature, it must be stored and used at a controlled temperature. Avoid violent blows. Avoid oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Specific information about the product itself are not available.

Component: Resin

Skin Irritation	:	Irritating to skin
Respiratory Information	:	Inhalation of vapours or mists may cause irritation to the respiratory system.
Additional Information	:	Exposure to very high concentrations of similar materials has been associated with irregular heart rhythms and cardiac arrest.

Component: Xylene

Acute Oral Toxicity	:	LD50 (Rat) > 2,000 mg/Kg
Acute Dermal Toxicity	:	LD50 (Rabbit) > 2,000 mg/Kg
Acute Inhalation Toxicity	:	LC50 (Rat) > 20 mg/L/4H
Skin	:	Irritating to Skin
Respiratory Irritation	:	Inhalation of vapours or mists may cause irritation to the respiratory system.
Additional Information	:	Exposure to very high concentrations of similar materials has been associated with irregular heart rhythms and cardiac arrest.

Component: n-Butyl acetate

Acute Oral Toxicity	:	LD50 (Mouse) = 6 mg/Kg LD50 (Rabbit) = 3,200 mg/Kg LD50 (Rat) = 10,768 mg/Kg
Acute Dermal Toxicity	:	LD50 (Rat): > 17,600 mg/Kg
Acute Inhalation Toxicity	:	LC50 (Rat) = 390 ppm/4H LC50 (Mouse) = 6 mg/m^3/2H
Draize Test	:	Rabbit, eye: 100 mg; Moderate Rabbit, skin: 500 mg/24H; Moderate

Component: Bentonite

Skin Irritation	:	Irritating to skin
Respiratory Information	:	Inhalation of vapours or mists may cause irritation to the respiratory system.
Additional Information	:	Exposure to very high concentrations of similar materials has been associated with irregular heart rhythms and cardiac arrest.

12. ECOLOGICAL INFORMATION

This product is dangerous for the environment and the aquatic organisms. In the long term, it has negative effects on aquatic environment.

Toxicity

Component: Xylene

Acute Oral Toxicity	:	LD50 (Rat): > 2,000 mg/Kg
Acute Dermal Toxicity	:	LD50 (Rabbit): > 2,000 mg/Kg
Acute Inhalation Toxicity	:	LC50 (Rat): >20 mg/l 4H
Skin Irritation	:	Irritating to skin
Respiratory Information	:	Inhalation of vapours or mists may cause irritation to the respiratory system.
Additional Information	:	Exposure to very high concentrations of similar materials has been associated with irregular heart rhythms and cardiac arrest.

Component: N-Butyl Acetate

LC50 – For Fish	:	18 mg/L/96H – Pimephales promelas
EC50 – For Crustacea	:	44 mg/L/48H – Daphnia magna
EC50 – For Algae	:	647 mg/L/72H – Desmodesmus subspicatus
Chronic NOEC for Algae	:	200 mg/L – Desmodesmus + mus subspicatus

Persistence and Degradability

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable.

Product	**Description**
Xylene :	Solubility in water: 100 – 1,000 mg/L Rapidly biodegradable

N-Butyl Acetate	:	Solubility in water: 1,000 – 10,000 mg/L Rapidly biodegradable

Bio accumulative Potential

Product		Partition Coefficient n-octanol/water	BCF
Xylene	:	3.6	25.9
N-Butyl Acetate	:	2.3	15.3

Mobility in Soil

Product		Partition Coefficient soil/water
Xylene	:	2.73
N-Butyl Acetate	:	< 3

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. TRANSPORT INFORMATION

	ADR/RID	IMDG	ICAO/IATA
TRANSPORTATION	Road	Marine	Airways
PROPER SHIPPING NAME	Solvent Based Paint		
UN/ID No.	1263		
SYMBOL			
CLASS	3		
PACKING GROUP	II		
LABEL CODES	3		

Environmental Hazards (MARINE Pollutant)		No	
EmS		F-E, S-E	
MFAG Table No.		See IMO MFAG	
HS CODE	32089010		

15. REGULATORY INFORMATION

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

Seveso Category – Directive 2012/18/EC: P5c-H3

Restrictions related to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

SUBSTANCES IN CANDIDATE LIST (Art. 59 REACH)
None
SUBSTANCES SUBJECT TO AUTHORIZATION (ANNEX XIV REACH)
None
SUBSTANCES SUBJECT TO EXPORTATION REPORTING PURSUANT TO (EC) Reg. 689/2008
None
SUBSTANCES SUBJECT TO THE ROTTERDAM CONVENTION
None
SUBSTANCES SUBJECT TO THE STOCKHOLM CONVENTION
None

Chemical Safety Assessment

No chemical safety assessment has been carried out.

16. OTHER INFORMATION

Date of Issue or Change : 06-04-2020

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.