1. IDENTIFICATION OF THE MIXTU	JRE AND OF THE SUPPLIER
Product Identifier	
Product	Acrylic Primer BBP Primer/Surfacer [81-0081]
Recommended use of chemical	Use as paint for coating
Restriction on use	No open flames, No spraks, and No smoking
Supplier's details	
Company	Big-Ben (Paints) Company Limited
Address	38 Mu 7 Suanluangruamjai Road Suanluang Krathumban Samutsakorn 74110 Thailand
Telephone number	+66 2 811 1442 or +66 2 811 1443
Fax number	+66 2 811 0632
E-mail	bbp@bbp.co.th
Emergency phone number	+66 2 811 1442 or + 66 2 811 1443
2. HAZARD IDENTIFICATION	
Classification of the substance or mi	xture
This product has been classified in a	accordance with the hazard communication standard 29 CSR 1910.1200; the SDS and labels contain all
the information as required by the sta	andard.
Flammable liquids	Category 1
Acute toxicity - oral	Category 5
Acute toxicity - dermal	Category 2
Skin corrosion/irritation	Category 2
Sentization - respiratory	Category 1
Toxic to reproduction	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration hazard	Category 1
Hazardous to the aquatic environment - acute hazard	Category 2
Hazardous to the aquatic environment - long-term hazard	Category 3
Percentage of mixture consisting of	of ingredient(s) of unknown oral toxicity: 43.49% of ingredient(s) of unknown dermal toxicity: 64.38% of ingredient(s) of unknown inhalation toxicity: 71.51%
Signal word	Danger
H335 May cause respiratory irritat H336 May cause drowsiness or di H361 Suspected of damaging ferti	d enters airways a symptoms or breathing difficulties if inhaled ion zziness ility or the unborn child
H373 May cause damage to orgar H401 Toxic to aquatic life	ns through prolonged or repeated exposure

H412 Harmful to aquatic life with long lasting effects

Precautionary statement

[PREVENTION]

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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

P233 Keep container tightly closed.

P240 Ground / bond container and receiving equipment.

P241 Use explosion-proof electrical / ventilating / lighting / equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust / fume / gas / mist / vapors / spray.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash thoroughly after handling.

P270 Do no eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P285 In case of inadequate ventilation wear respiratory protection.

[RESPONSE]

P301+P310 IF SWALLOWED Immediately call a POISON CENTER or doctor / physician.

P302+P350 IF ON SKIN Gently wash with plenty of soap and water.

P302+P352 IF ON SKIN Wash with plenty of soap and water.

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.

P304+P341 IF INHALED If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P308+P313 IF exposed or concernedGet medical advice / attention.

P310 Immediately call a POISON CENTER or doctor / physician.

P312 Call a POISON CENTER or doctor / physician if you feel unwell.

P314 Get medical advice / attention if you feel unwell.

P321 Specific treatment (see on this label).

P322 Specific measures (see on this label).

P331 Do NOT induce vomiting.

P332+P313 IF skin irritation occursGet medical advice / attention.

P342+P311 IF experiencing respiratory symptoms Call a POISON CENTER or doctor / physician.

P361 Remove / Take off immediately all contaminated clothing.

P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire Use dry sand, dry chemical or alcohol-resistant foam for extinction.

[STORAGE]

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

[DISPOSAL]

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

Chemical name	CAS No.	Content % (w/w)	
1-Butanol	71-36-3	6.59 - 11.08	
1-benzyl 2-butyl benzene-1,2- dicarboxylate	85-68-7	2.00 - 3.06	
Acrylic resin	-	14.61 - 26.84	
Butyl Acetate	123-86-4	2.89 - 6.93	
DIATOMACEOUS EARTH	68855-54-9	2.80 - 4.79	
Magnesium Dioxide	1309-48-4	3.82 - 9.99	
Silicon Dioxide	7631-86-9	2.18 - 6.09	
Silicon dioxide	14808-60-7	4.97 - 11.96	
Titanium Dioxide	13463-67-7	3.85 - 7.46	
Toluene	108-88-3	9.38 - 25.11	
Xylene	1330-20-7	6.02 - 10.69	
4. FIRST AND MEASURES		1	
Inhalation	Remove to fresh air. If unconscious, place in re	novery position and cook modical attention	
	immediately.	covery position and seek medical attention	
Skin contact	-	utes. Remove contaiminated clothing. Seek medical	
okin contact	attention immediately. Wash thoroughly after ha	•	
Eye contact	Hold eyelids apart and immediately flush with plenty of water for 15 minutes. Seek medical advic		
,	Remove contact lenses.		
Ingestion	Rinse mouth with water. Never give anything by	mouth to an unconscious person. Obtain medical	
		ng unless directed to do so by medical personnel.	
Most important symptoms/effects,	Dizziness. Drowsiness. Headache. Nausea. Vo	mitting. Weakness. Unconsciousness. Skin and eye	
acute and delayed	redness. Pain. Nausea. Vomitting.		
5. FIRE FIGHTING MEASURES			
Suitable extinguishing media	Dry chemical. Carbon Dioxide (CO ₂). Alcohol-re	esistant foam. Water spray.	
Unsuitable extinguishing media	High volume water jet.		
Specific hazards arising from the	Flammable liquid. Vapors can form an ignitable misture with air. Vapors can flow along surfaces to a		
chemical	distant ignition source and flash back. Container may rupture on heating.		
Specific protective equipment and precautions for firefighters	Wear self-contained breathing apparatus and full protective clothing for firefighting.		
6. ACCIDENTAL RELEASE MEAS	JRES		
Personal precautions, protective	Keep unnecessary personnel away. Prevent fur	ther leakage or spillage if safe to do so. Use persona	
equipment, and emergency	protective equipment. Use only non-sparkling to		
procedures			
Environmental precautions	Prevent the material from entering drains or wa	ter courses.	
Methods and materials for	Contain spillage, and then collect with non-com	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth,	
containment and cleaning up	diatomaceous earth, vermiculite) and place in c	ontainer for disposal according to local/national	
	regulations.		
7. HANDLING AND STORAGE			
Precautions for safe handling	Avoid breathing vapor and contact with eyes, sl	kin, and clothing. Do no leave containers open. Avoid	
	repeated or prolonged contact with skin.		
Conditions for safe storage,	Keep away from heat or flames. Keep in cool, d	ry, ventilated storage and in closed	
including any incompatibilites	containers. Store away from oxidizing agent.		
8. EXPOSURE CONTROLS/PERSO	DNAL PROTECTION		
Control parameters	<u>1-Butanol</u> OSHA		
	PEL-TWA 100 ppm (300 mg/m ³) ¹⁹ Skin notification N ¹⁹		
	NIOSH		

REL-C 50 ppm (150 mg/m³)¹⁹

Skin notification Y¹⁹ ACGIH

TLV-TWA 20 ppm [1998]¹⁹ Skin notification N¹⁹

CAL/OSHA

PEL-C 50 ppm (150 mg/m³)¹⁹ Skin notification Y^{19}

<u>1-benzyl 2-butyl benzene-1,2-dicarboxylate</u> <u>Acrylic resin</u> <u>Butyl Acetate</u> OSHA

PEL-TWA 150²⁰ Skin notification N²⁴ NIOSH

REL-TWA 150²⁴

REL-STEL 200²⁴

Skin notification N²⁴ ACGIH

TLV-TWA 50²⁴

TLV-STEL 150²⁴

Skin notification N

CAL/OSHA

PEL-TWA 150²⁴

PEL-STEL 200²⁴

Skin notification N²⁴ DIATOMACEOUS EARTH Magnesium Dioxide Silicon Dioxide

<u>Silicon dioxide</u> OSHA

Skin notification N²⁵ NIOSH

Skin notification N²⁵ ACGIH

Skin notification N²⁵

CAL/OSHA Skin notification N²⁵

<u>Titanium Dioxide</u> OSHA

PEL-TWA 15²¹ Skin notification N²¹

NIOSH

Skin notification N²¹ ACGIH

TLV-TWA 10²¹

Skin notification N²¹ CAL/OSHA

PEL-TWA 10²¹ Skin notification N²¹

oluene

<u>Toluene</u> OSHA

PEL-TWA 200 ppm²²

PEL-C 300 ppm; 500 ppm (Peak) [10 min maximum in an 8 hr shift]²² Skin notification N^{22}

NIOSH

REL-TWA 100 ppm (375 mg/m³)²²

REL-STEL 150 ppm (560 mg/m³)²²

Skin notification N²² ACGIH

TLV-TWA 20 ppm [2006]²²

Skin notification N^{22}

CAL/OSHA

	PEL-TWA 10 ppm (37 mg/m ³) ²² PEL-STEL 150 ppm (560 mg/m ³) ²² PEL-C 500 ppm ²² Skin notification Y ²² <u>Xylene</u> OSHA PEL-TWA 100 ²³ Skin notification N ²³ NIOSH
	REL-TWA 100 ²³
	Skin notification N ²³ ACGIH
	TLV-TWA 100 ²³
	TLV-STEL 150 ²³
	Skin notification N ²³ CAL/OSHA
	PEL-TWA 100 ²³
	PEL-STEL 150 ²³
	PEL-C 300 ²³ Skin notification N ²³
Appropriate engineering controls	Skin notification N ²⁰ Provide adequate ventilation. Install local exhaust.
Personal protective equipment	
Respiratory protection	Organic vapor respirator
Hand protection	Rubber gloves. Neoprene.
Eye protection	Safety goggle.
Skin and body protection	Wear suitable clothing
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9. PHYSICAL AND CHEMICAL PRO	
Appearance	High Viscosity liquid
Odor	Aromatic like
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available < 23
Flash point	
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	Not available Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	1.15 - 1.25
Solubility(ies)	Soluble in Organic solvent
Partition coefficient n-Octanol-water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	97 - 103 KU at 30°C
10. STABILITY AND REACTIVITY	
Reactivity	Reacts violently with strong acids and strong oxidants
Chemical stability	Stable under normal storage and handling conditions
Possibility of hazardous reaction	Will not occur
Condition to avoid	High temperatures, sparks, open flame, and all other sources of ignition
Incompatible materials	Strong oxidizing agents, strong acids
Hazardous decomposition products	Not available
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11. TOXICOLOGICAL INFORMAT	ION
Acute toxicity (oral)	ATEmix = 2674.27 mg/kg (Category 5)
	1-Butanol LD50 (rat) oral = 790.00 mg/kg ¹
	1-benzyl 2-butyl benzene-1,2-dicarboxylate LD50 (rat) oral = 2330.00 mg/kg ²
	Butyl Acetate LD50 (rat) oral = 10736.00 mg/kg ³
	DIATOMACEOUS EARTH LD50 (rat) oral = 2000.00 mg/kg ⁴
	Magnesium Dioxide LD50 (rat) oral = 3870.00 mg/kg
	Titanium Dioxide LD50 (rat) oral = 10000.00 mg/kg ⁵
	Toluene LD50 (rat) oral = 5000.00 mg/kg ⁶
Acute toxicity (dermal)	ATEmix = 95.63 mg/kg (Classify 2)
	1-Butanol LD50 (rabbit) dermal = 3400.00 mg/kg ¹
	Butyl Acetate LD50 (rabbit) dermal = 16.00 mg/kg ³
	Toluene LD50 (rabbit) dermal = 14100.00 mg/kg ⁶
Acute toxicity (dermal)	ATEmix = 19.26 mg/kg (Not classified)
	1-Butanol LC50 (rat) inhalation = 8000.00 mg/kg ¹
	Butyl Acetate LC50 (rat) inhalation = 740.00 mg/kg ³
	DIATOMACEOUS EARTH LC50 (rat) inhalation = 2.60 mg/kg ⁴
	Xylene LC50 (rat) inhalation = 6360.00 mg/kg ⁷
Skin corrosion and skin irritation	Causes skin irritation (Toluene,Xylene)
Serious eye damage or eye irritation	Not classified
Respirator and skin sensitzation	May cause allergy or asthma symptoms or breathing difficulties if inhaled (1-Butanol)
Skin sentization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Suspected of damaging fertility or the unborn child (Toluene)
Specific target organ toxicity following single exposure	May cause respiratory irritation (1-Butanol,Butyl Acetate,Toluene)
Specific target organ toxicity following repeated exposure	May cause damage to organs through prolonged or repeated exposure (Toluene)
Aspiration hazard	May be fatal if swallowed and enters airways (Toluene)

12. ECOLOGICAL INFORMATIO	N
Acute aquatic hazard	Toxic to aquatic life
	<u>1-Butanol</u> LC50 (fish) 96 hr = 100 mg/L ¹
	EC48 (shrimp) 48 hr = 1983 mg/L ¹
	$\frac{Butyl Acetate}{LC50 (fish) 96 hr} = 18 mg/L^3$
	EC48 (shrimp) 48 hr = 32 mg/L^3
	<u>Titanium Dioxide</u> EC48 (shrimp) 48 hr = 100 mg/L ⁵
	ErC-EC72 (Fungi) 96 hr = 35.9 mg/L ⁵
	<u>Toluene</u> LC50 (fish) 96 hr = 7.3 mg/L ¹³
	EC48 (shrimp) 48 hr = 6 mg/L ¹³
	ErC-EC72 (Fungi) 96 hr = 12.5 mg/L ¹³
	<u>Xylene</u> LC50 (fish) 96 hr = 3.30 mg/L ¹⁴
Long term aquatic hazard	Harmful to aquatic life with long lasting effects
	<u>1-Butanol</u> NOEC shrimp = NOEC (21 days) 4.1 mg/L mg/L ¹⁰
	Butyl Acetate NOEC fish = 23 mg/L ³
	NOEC shrimp = 23 mg/L^3
	NOEC fungi = 196 mg/L ³
	<u>Titanium Dioxide</u> NOEC shrimp = 1.72-5 mg/L ¹⁷
	NOEC fungi = 1 mg/L ¹⁸
	<u>Toluene</u> NOEC fish = 1.4 mg/L ¹⁵
	NOEC shrimp = 7.4 mg/L ¹⁵
	NOEC fungi = 10 mg/L ¹⁵
	<u>Xylene</u> NOEC fish = 1.30 mg/L ¹⁶
	NOEC shrimp = 1.57 mg/L^9
	NOEC fungi = 0.44 mg/L ⁹
Persistance and degradability	Rapidly degradable (Butyl Acetate, Toluene, Xylene)
Bioaccumulative potential	Bioaccumulative potential
	$\frac{1-\text{Butanol}}{\log \text{KOW}} = 0.88^{26}$
	$BCF = 3^{26}$
	$\frac{1-\text{benzyl }2-\text{butyl benzene-1,}2-\text{dicarboxylate}}{\text{log KOW} = 4.84 @ 20 °C^2}$
	Butyl Acetate log KOW = 1.78 ²⁷
	$BCF = 7.00^{27}$
	$\frac{\text{Toluene}}{\log \text{ KOW}} = 2.73^{28}$
	BCF = 13 ²⁸
	$\frac{\text{Xylene}}{\text{log KOW}} = 3.20^{29}$
	BCF = 14.80 ²⁹
Mobility in soil	The product is insoluable in water. If released to water, some of the components will have tendency to
	evaporate while other components are expected to be highly mobile in soil and have the potential to
	reach underground water supplies.
Other adverse effects	Not available

13. DISPOSAL CONSIDERATIONS	
Disposal methods	Disposing of this material/container should be done under all the regulations or handled by authorized
	waste collector in your country
Container disposal	Do not re-use empty containers
14. TRANSPORT INFORMATION	
Labels required	
UN number	1263
UN proper shipping name	Paint
Transport hazard class(es)	3
Packing group	III
Environmental hazards	Not applicable
Special precautions	Not applicable
Transport in bulk	Not applicable
15. REGULATORY INFORMATION	
Inventory of existing chemical	All component in this product are listed
substance produced or imported in	
USA (TSCA)	
Toxic substance control act (TSCA)	All component in this product are listed

16. OTHER INFORMATION	
Issue date: 20 September 2022	
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