

1. IDENTIFICATION OF THE MIXTURE AND OF THE SUPPLIER

Product Identifier	
Product	Acrylic Primer BBP Primer/Surfacer [81-0081]
Recommended use of chemical	Use as primer
Restriction on use	No open flames, No sparks, 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 mixture

This product has been classified in accordance with the hazard communication standard 29 CSR 1910.1200; the SDS and labels contain all the information as required by the standard.

Flammable liquids	Category 2
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	Category 3
(single exposure)	
Specific target organ toxicity	Category 2
(repeated exposure)	
Aspiration hazard	Category 1
Hazardous to the aquatic environment	Category 2
- acute hazard	
Hazardous to the aquatic environment	Category 3

- long-term hazard

Remark:

Percentage of mixture consisting of ingredient(s) of unknown oral toxicity: 45.23% Percentage of mixture consisting of ingredient(s) of unknown dermal toxicity: 64.70% Percentage of mixture consisting of ingredient(s) of unknown inhalation toxicity: 74.90%

GHS label elements

Pictogram or symbol



Signal word

Hazard statement:

H225 Highly Flammable liquid and vapour

H303 May be harmful if swallowed

H304 May be fatal if swallowed and enters airways

H310 Fatal in contact with skin

H315 Causes skin irritation

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

H361 Suspected of damaging fertility or the unborn child



H373 May cause damage to organs through prolonged or repeated exposure

H401 Toxic to aquatic life

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.

3. COMPOSITION AND INFORMATION ON INGREDIENTS		
	CACAL	

Chemical name	CAS No.	Content % (w/w)
1-Butanol	71-36-3	3.08 - 10.29
1-benzyl 2-butyl benzene-1,2-	85-68-7	2.14 - 3.71
dicarboxylate		

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Acrylic resin	-	10.67 - 33.01	
Butyl Acetate	123-86-4	3.04 - 8.38	
Magnesium Dioxide	1309-48-4	5.67 - 12.65	
Silicon Dioxide	7631-86-9	2.34 - 6.89	
Silicon dioxide	14808-60-7	4.35 - 13.26	
Titanium Dioxide	13463-67-7	5.12 - 9.43	
Toluene	108-88-3	13.51 - 23.94	
Xylene	1330-20-7	3.93 - 12.39	
4. FIRST AID MEASURES			
Inhalation	Remove to fresh air. If unconscious, immediately.	place in recovery position and seek medical attention	
Skin contact	Immediately flush with water for at a attention immediately. Wash thorou	least 15 minutes. Remove contaiminated clothing. Seek medical	
Eye contact	•	flush with plenty of water for 15 minutes. Seek medical advice.	
Ingestion	5	anything by mouth to an unconscious person. Obtain medical uce vomitting unless directed to do so by medical personnel.	
Most important symptoms/effects, acute and delayed	Dizziness. Drowsiness. Headache. Na redness. Pain. Nausea. Vomitting.	ausea. Vomitting. Weakness. Unconsciousness. Skin and eye	
5. FIRE FIGHTING MEASURES			
Suitable extinguishing media	Dry chemical. Carbon Dioxide (CO ₂).	. Alcohol-resistant foam. Water spray.	
Unsuitable extinguishing media	High volume water jet.		
Specific hazards arising from the chemical		an ignitable misture with air. Vapors can flow along surfaces to a ck. Container may rupture on heating.	
Specific protective equipment and	Wear self-contained breathing appa	Wear self-contained breathing apparatus and full protective clothing for firefighting.	
precautions for firefighters			
6. ACCIDENTAL RELEASE MEASURES			
Personal precautions, protective	Keep unnecessary personnel away.	Prevent further leakage or spillage if safe to do so. Use personal	
equipment, and emergency procedures	protective equipment. Use only non	-sparkling tools.	
Environmental precautions	Prevent the material from entering of	drains or water courses.	
Methods and materials for containment and cleaning up		ith non-combustible absorbent material, (e.g. sand, earth, d place in container for disposal according to local/national	
7. HANDLING AND STORAGE			
Precautions for safe handling	Avoid breathing vapor and contact version of the prolonged contact with	with eyes, skin, and clothing. Do no leave containers open. Avoid skin.	
Conditions for safe storage, including any incompatibilites	Keep away from heat or flames. Kee containers. Store away from oxidizir	p in cool, dry, ventilated storage and in closed ng agent.	
8. EXPOSURE CONTROLS/PERSONAL	PROTECTION		
Control parameters	<u>1-Butanol</u> OSHA		
	PEL-TWA 100 ppm (300 mg/m ³) ²⁰		
	Skin notification N ²⁰		
	NIOSH		
	REL-C 50 ppm $(150 \text{ mg/m}^3)^{20}$		
	Skin notification Y ²⁰		
	ACGIH TLV-TWA 20 ppm [1998] ²⁰		
	Skin notification N ²⁰		
	CAL/OSHA		
	PEL-C 50 ppm (150 mg/m ³) ²⁰		

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SAFETY DATA SHEET

Skin notification Y²⁰ Safe Work Australia (Australia, 4/2024) TWA : 20 ppm 8 hours. ²⁶ TWA : 61 mg/m³ 8 hours. ²⁶ <u>Butyl Acetate</u> OSHA PEL-TWA 150²¹ Skin notification N²¹ NIOSH REL-TWA 150²¹ REL-STEL 200²¹ Skin notification N²¹ ACGIH TLV-TWA 50²¹ TLV-STEL 150²¹ Skin notification N CAL/OSHA PEL-TWA 150²¹ PEL-STEL 200²¹ Skin notification N²¹ Safe Work Australia (Australia, 4/2024) TWA : 50 ppm 8 hours. ²⁶ TWA : 270 mg/m³ 8 hours. ²⁶ STEL: 100 ppm 15 minutes. ²⁶ STEL : 541 mg/m³ 15 minutes. ²⁶ Safe Work Australia (Australia, 4/2024) TWA : 10 mg/m³ 8 hours. ²⁶ Safe Work Australia (Australia, 4/2024) TWA : 2 mg/m³ 8 hours. ²⁸ Silicon dioxide OSHA Skin notification N²⁵ NIOSH Skin notification N²⁵ ACGIH Skin notification N²⁵ CAL/OSHA Skin notification N²⁵ Safe Work Australia (Australia, 4/2024) TWA : 0.05 mg/m³ 8 hours. ²⁷ <u>Titanium Dioxide</u> OSHA PEL-TWA 15²² Skin notification N²² NIOSH Skin notification N²² ACGIH TLV-TWA 10²² Skin notification N²² CAL/OSHA PEL-TWA 10²² Skin notification N²² Safe Work Australia (Australia, 4/2024) TWA : 10 mg/m³ 8 hours. 27 <u>Toluene</u> OSHA

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SAFETY DATA SHEET

	PEL-TWA 200 ppm ²³
	PEL-C 300 ppm; 500 ppm (Peak) [10 min maximum in an 8 hr shift] ²³
	Skin notification N ²³
	NIOSH
	REL-TWA 100 ppm (375 mg/m³) ²³
	REL-STEL 150 ppm (560 mg/m³) ²³
	Skin notification N ²³
	ACGIH
	TLV-TWA 20 ppm [2006] ²³
	Skin notification N ²³
	CAL/OSHA
	PEL-TWA 10 ppm (37 mg/m³) ²³
	PEL-STEL 150 ppm (560 mg/m³) ²³
	PEL-C 500 ppm ²³
	Skin notification Y ²³
	Safe Work Australia (Australia, 4/2024)
	TWA : 20 ppm 8 hours. ²⁷
	TWA : 75 mg/m ³ 8 hours. ²⁷
	<u>Xylene</u> OSHA
	PEL-TWA 100 ²⁴
	Skin notification N ²⁴
	NIOSH
	REL-TWA 100 ²⁴
	Skin notification N ²⁴
	ACGIH
	TLV-TWA 100 ²⁴
	TLV-STEL 150 ²⁴
	Skin notification N ²⁴
	CAL/OSHA
	PEL-TWA 100 ²⁴
	PEL-STEL 150 ²⁴
	PEL-C 300 ²⁴
	Skin notification N ²⁴
	Safe Work Australia (Australia, 4/2024)
	TWA : 80 ppm 8 hours. ²⁷
	TWA : 350 mg/m ³ 8 hours. ²⁷
	STEL : 150 ppm 15 minutes. ²⁷
	STEL : 655 mg/m ³ 15 minutes. ²⁷
Appropriate engineering controls	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
9. PHYSICAL AND CHEMICAL PROPER	-
Physical state	High Viscosity liquid
Colour	Grey
Odour	Organic solvent
рН	Not available
•	
Melting point/freezing point	Not available

and boiling range

Boiling point or initial boiling point 110.6 °C (231.1 °F) (Toluene)



Flash point	4.4 °C (39.9 °F) (Toluene)
Flammability	Flammable
Lower and upper explosion	Not available
limit/flammability limit	
Vapour pressure	16 hPa at 20 °C (Butyl Acetate)
Density and/or relative density	1.15 - 1.25 g/cm ³
Relative vapour density	Not available
Solubility	Soluble in Organic solvent
Partition coefficient n-octanol/water	Not applicable
(log value)	
Auto-ignition temperature	480.0 °C (896.0 °F) (Toluene)
Decomposition temperature	Not applicable
Viscosity	97 - 103 KU at 30 °C
Particle characteristics	Not applicable
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
11. TOXICOLOGICAL INFORMATION	
Acute toxicity (oral)	ATEmix = 2833.56 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
	Magnesium Dioxide LD50 (rat) oral = 3870.00 mg/kg
	Titanium Dioxide LD50 (rat) oral = 10000.00 mg/kg ⁴
	Toluene LD50 (rat) oral = 5000.00 mg/kg^5
Acute toxicity (dermal)	ATEmix = 81.86 mg/kg (Category 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 ⁵
Acute toxicity (inhalation)	ATEmix = 2060.85 mg/kg (Not classified)
	1-Butanol LC50 (rat) inhalation = 8000.00 mg/kg^1
	Butyl Acetate LC50 (rat) inhalation = 740.00 mg/kg^3
	Xylene LC50 (rat) inhalation = 6360.00 mg/kg ⁶
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 INFORMATION	



Toxic to aquatic life $\frac{1-Butanol}{LC50 (fish) 96 hr} = 100 mg/L^{1}$ EC48 (shrimp) 48 hr = 1983 mg/L¹ <u>1-benzyl 2-butyl benzene-1,2-dicarboxylate</u> LC50 (fish) 96 hr = 0.510 mg/L¹¹ EC48 (shrimp) 48 hr = 0.740 mg/L¹¹ $\frac{Butyl Acetate}{LC50 (fish) 96 hr} = 18 mg/L^3$ EC48 (shrimp) 48 hr = 32 mg/L^3 $\frac{\text{Titanium Dioxide}}{\text{EC48 (shrimp) 48 hr}} = 100 \text{ mg/L}^4$ ErC-EC72 (Fungi) 96 hr = 35.9 mg/L⁴ $\frac{\text{Toluene}}{\text{LC50 (fish) 96 hr}} = 7.3 \text{ mg/L}^{12}$ EC48 (shrimp) 48 hr = 6 mg/L^{12} ErC-EC72 (Fungi) 96 hr = 12.5 mg/L¹² <u>Xylene</u> LC50 (fish) 96 hr = 3.30 mg/L⁶ Harmful to aquatic life with long lasting effects $\frac{1-Butanol}{NOEC shrimp} = 4.1 \text{ mg/L}^9$ <u>1-benzyl 2-butyl benzene-1,2-dicarboxylate</u> NOEC fish = 64.6 mg/L¹¹ NOEC shrimp = 0.075 mg/L^{11} NOEC fungi = 0.150 mg/L^{11} <u>Butyl Acetate</u> NOEC fish = 23 mg/L³ NOEC shrimp = 23 mg/L^3 NOEC fungi = 196 mg/L^3 $\frac{\text{Titanium Dioxide}}{\text{NOEC shrimp}} = 1.72 \text{ mg/L}^{15}$ NOEC fungi = 1 mg/L^{15} $\frac{\text{Toluene}}{\text{NOEC fish}} = 1.4 \text{ mg/L}^{13}$ NOEC shrimp = 7.4 mg/L^{13} NOEC fungi = 10 mg/L^{13} <u>Xylene</u> NOEC fish = 1.30 mg/L^{14} NOEC shrimp = 1.57 mg/L^8 NOEC fungi = 0.44 mg/L^8 Rapidly degradable (Butyl Acetate, Toluene, Xylene) Bioaccumulative potential $\frac{1-Butanol}{\log KOW} = 0.88^{16}$ $BCF = 3^{16}$ <u>1-benzyl 2-butyl benzene-1,2-dicarboxylate</u> log KOW = $4.84 @ 20 °C^2$ $\frac{Butyl Acetate}{\log KOW} = 1.78^{17}$ $BCF = 7.00^{17}$ $\frac{\text{Toluene}}{\log \text{ KOW}} = 2.73^{18}$ $BCF = 13^{18}$ $\frac{Xylene}{\log KOW} = 3.20^{19}$ $BCF = 14.80^{19}$

Long term aquatic hazard

Persistance and degradability Bioaccumulative potential

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	
Environmental hazards	Not applicable
Special precautions	Not applicable
Transport in bulk	Not applicable
15. REGULATORY INFORMATION	
Inventory of existing chemical substance produced or imported in USA (TSCA)	All component in this product are listed
Toxic substance control act (TSCA)	All component in this product are listed
16. OTHER INFORMATION	
Issue date: 15 March 2025	
References	
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2. https://echa.europa.eu/brief-profile/	-/briefprofile/100.001.475 (17-4-20)
3. https://echa.europa.eu/brief-profile/-/briefprofile/100.004.236#ScientificProperties (17-12-19)	
4. https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~Q1zAvm:3 (3-5-19)	
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6. https://www.epa.govt.nz/database-se	earch/chemical-classification-and-information-database-ccid/view/682 (04-05-19)
7. https://echa.europa.eu/brief-profile/-/briefprofile/100.003.297 (3-5-19)	
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22. https://www.osha.gov/chemicaldata/chemResult.html?recNo=246 (3-5-19)	
	a/chemResult.html?recNo=89 (03-05-19)
24. https://www.osna.gov/chemicaldata	a/chemResult.html?recNo=228 (04-05-19)



- 25. https://www.osha.gov/chemicaldata/chemResult.html?recNo=278 (17-12-19)
- 26. Safe Work Australia Workplace exposure limits for airborne contaminants April 2024 (20-8-2024)
- 27. Safe Work Australia Workplace exposure limits for airborne contaminants April 2024 (21-8-2024)
- 28. Safe Work Australia Workplace exposure limits for airborne contaminants April 2024 (20-8-24)