

1. IDENTIFICATION OF THE MIXTURE AND OF THE SUPPLIER**Product Identifier**

Product	Acrylic Primer Grey [81-0222]
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 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 1
Acute toxicity - oral	Category 5
Acute toxicity - dermal	Category 3
Skin corrosion/irritation	Category 2
Eye damage/irritation	Category 2A
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

Remark:

Percentage of mixture consisting of ingredient(s) of unknown oral toxicity: 44.22%

Percentage of mixture consisting of ingredient(s) of unknown dermal toxicity: 67.64%

Percentage of mixture consisting of ingredient(s) of unknown inhalation toxicity: 76.06%

GHS label elements

Pictogram or symbol



Signal word

Danger

Hazard statement:

H224 Extremely flammable liquid and vapour

H303 May be harmful if swallowed

H304 May be fatal if swallowed and enters airways

H311 Toxic in contact with skin

H315 Causes skin irritation

H319 Causes serious eye 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.

P264 Wash thoroughly after handling.

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+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.

P305+P351+P338 IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned Get medical advice / attention.

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 occurs Get medical advice / attention.

P337+P313 IF eye irritation persists Get 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

Chemical name	CAS No.	Content % (w/w)
1-Butanol	71-36-3	12.60 - 21.98
1-benzyl 2-butyl benzene-1,2-dicarboxylate	85-68-7	2.47 - 4.16
Acrylic resin	-	15.01 - 25.95
Butyl Acetate	123-86-4	0.95 - 3.29
Carbon Black	1333-86-4	0.00 - 0.01
Magnesium Dioxide	1309-48-4	6.75 - 14.14
Methanol	67-56-1	0.30 - 1.02
Silicon Dioxide	7631-86-9	14.04 - 30.25
Titanium Dioxide	13463-67-7	7.00 - 14.71
Toluene	108-88-3	12.06 - 22.89
Xylene	1330-20-7	3.86 - 7.41
Others	-	0.01 - 0.01

4. FIRST AND MEASURES

Inhalation	Remove to fresh air. If unconscious, place in recovery position and seek medical attention immediately.
Skin contact	Immediately flush with water for at least 15 minutes. Remove contaminated clothing. Seek medical attention immediately. Wash thoroughly after handling.
Eye contact	Hold eyelids apart and immediately flush with plenty of water for 15 minutes. Seek medical advice. Remove contact lenses.
Ingestion	Rinse mouth with water. Never give anything by mouth to an unconscious person. Obtain medical attention. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.
Most important symptoms/effects, acute and delayed	Dizziness. Drowsiness. Headache. Nausea. Vomiting. Weakness. Unconsciousness. Skin and eye redness. Pain. Nausea. Vomiting.

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	Flammable liquid. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a 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 MEASURES

Personal precautions, protective equipment, and emergency procedures	Keep unnecessary personnel away. Prevent further leakage or spillage if safe to do so. Use personal protective equipment. Use only non-sparking tools.
Environmental precautions	Prevent the material from entering drains or water courses.
Methods and materials for containment and cleaning up	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations.

7. HANDLING AND STORAGE

Precautions for safe handling	Avoid breathing vapor and contact with eyes, skin, and clothing. Do not leave containers open. Avoid repeated or prolonged contact with skin.
Conditions for safe storage, including any incompatibilities	Keep away from heat or flames. Keep in cool, dry, ventilated storage and in closed containers. Store away from oxidizing agent.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters	<u>1-Butanol</u> OSHA PEL-TWA 100 ppm (300 mg/m ³) ²² Skin notification N ²² NIOSH REL-C 50 ppm (150 mg/m ³) ²²
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Skin notification Y²²
 ACGIH
 TLV-TWA 20 ppm [1998]²²
 Skin notification N²²
 CAL/OSHA
 PEL-C 50 ppm (150 mg/m³)²²
 Skin notification Y²²
1-benzyl 2-butyl benzene-1,2-dicarboxylate
Acrylic resin
Butyl Acetate
 OSHA
 PEL-TWA 150²³
 Skin notification N²⁸
 NIOSH
 REL-TWA 150²⁸
 REL-STEL 200²⁸
 Skin notification N²⁸
 ACGIH
 TLV-TWA 50²⁸
 TLV-STEL 150²⁸
 Skin notification N
 CAL/OSHA
 PEL-TWA 150²⁸
 PEL-STEL 200²⁸
 Skin notification N²⁸
Carbon Black
 OSHA
 PEL-TWA 3.5¹⁹
 NIOSH
 REL-TWA 3¹⁹
 ACGIH
 TLV-TWA 3.5¹⁹
 CAL/OSHA
 PEL-TWA 3.5¹⁹
Magnesium Dioxide
Methanol
 OSHA
 PEL-TWA 200²⁴
 Skin notification N²⁴
 NIOSH
 REL-TWA 200²⁴
 REL-STEL 250²⁴
 Skin notification Y²⁴
 ACGIH
 TLV-TWA 200²⁴
 TLV-STEL 250²⁴
 Skin notification Y²⁴
 CAL/OSHA
 PEL-TWA 200²⁴
 PEL-STEL 250²⁴
 PEL-C 1000²⁴
 Skin notification Y²⁴
Silicon Dioxide
Titanium Dioxide
 OSHA
 PEL-TWA 15²⁵
 Skin notification N²⁵
 NIOSH
 Skin notification N²⁵
 ACGIH
 TLV-TWA 10²⁵
 Skin notification N²⁵
 CAL/OSHA

	<p> PEL-TWA 10²⁵ Skin notification N²⁵ <u>Toluene</u> OSHA PEL-TWA 200 ppm²⁶ PEL-C 300 ppm; 500 ppm (Peak) [10 min maximum in an 8 hr shift]²⁶ Skin notification N²⁶ NIOSH REL-TWA 100 ppm (375 mg/m³)²⁶ REL-STEL 150 ppm (560 mg/m³)²⁶ Skin notification N²⁶ ACGIH TLV-TWA 20 ppm [2006]²⁶ Skin notification N²⁶ CAL/OSHA PEL-TWA 10 ppm (37 mg/m³)²⁶ PEL-STEL 150 ppm (560 mg/m³)²⁶ PEL-C 500 ppm²⁶ Skin notification Y²⁶ <u>Xylene</u> OSHA PEL-TWA 100²⁷ Skin notification N²⁷ NIOSH REL-TWA 100²⁷ Skin notification N²⁷ ACGIH TLV-TWA 100²⁷ TLV-STEL 150²⁷ Skin notification N²⁷ CAL/OSHA PEL-TWA 100²⁷ PEL-STEL 150²⁷ PEL-C 300²⁷ Skin notification N²⁷ <u>Others</u> </p>
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 PROPERTIES

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
Flash point	< 23
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	1.25-1.35
Solubility(ies)	Soluble in Organic solvent
Partition coefficient n-Octanol-water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	100 - 110 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


11. TOXICOLOGICAL INFORMATION

Acute toxicity (oral)	<p>ATEmix = 2072.29 mg/kg (Category 5)</p> <p>1-Butanol LD50 (rat) oral = 790.00 mg/kg¹</p> <p>1-benzyl 2-butyl benzene-1,2-dicarboxylate LD50 (rat) oral = 2330.00 mg/kg²</p> <p>Butyl Acetate LD50 (rat) oral = 10736.00 mg/kg³</p> <p>Carbon Black LD50 (rat) oral = 10000.00 mg/kg⁴</p> <p>Magnesium Dioxide LD50 (rat) oral = 3870.00 mg/kg</p> <p>Methanol LD50 (rat) oral = 1187.00 mg/kg⁵</p> <p>Titanium Dioxide LD50 (rat) oral = 10000.00 mg/kg⁶</p> <p>Toluene LD50 (rat) oral = 5000.00 mg/kg⁷</p>
Acute toxicity (dermal)	<p>ATEmix = 223.91 mg/kg (Classify 3)</p> <p>1-Butanol LD50 (rabbit) dermal = 3400.00 mg/kg¹</p> <p>Butyl Acetate LD50 (rabbit) dermal = 16.00 mg/kg³</p> <p>Toluene LD50 (rabbit) dermal = 14100.00 mg/kg⁷</p>
Acute toxicity (dermal)	<p>ATEmix = 1662.19 mg/kg (Not classified)</p> <p>1-Butanol LC50 (rat) inhalation = 8000.00 mg/kg¹</p> <p>Butyl Acetate LC50 (rat) inhalation = 740.00 mg/kg³</p> <p>Carbon Black LC50 (rat) inhalation = 4.60 mg/kg⁴</p> <p>Methanol LC50 (rat) inhalation = 115.90 mg/kg⁵</p> <p>Xylene LC50 (rat) inhalation = 6360.00 mg/kg⁸</p>
Skin corrosion and skin irritation	Causes skin irritation (Toluene,Xylene)
Serious eye damage or eye irritation	Causes serious eye irritation (1-Butanol)
Respirator and skin sensitization	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,Methanol,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

Acute aquatic hazard	<p>Toxic to aquatic life</p> <p><u>1-Butanol</u></p> <p>LC50 (fish) 96 hr = 100 mg/L¹</p> <p>EC48 (shrimp) 48 hr = 1983 mg/L¹</p> <p><u>Butyl Acetate</u></p> <p>LC50 (fish) 96 hr = 18 mg/L³</p> <p>EC48 (shrimp) 48 hr = 32 mg/L³</p> <p><u>Methanol</u></p> <p>LC50 (fish) 96 hr = 15400 mg/L⁵</p> <p>EC48 (shrimp) 48 hr = 18260 mg/L⁵</p> <p>ErC-EC72 (Fungi) 96 hr = 2200 mg/L⁵</p> <p><u>Titanium Dioxide</u></p> <p>EC48 (shrimp) 48 hr = 100 mg/L⁶</p> <p>ErC-EC72 (Fungi) 96 hr = 35.9 mg/L⁶</p> <p><u>Toluene</u></p> <p>LC50 (fish) 96 hr = 7.3 mg/L¹⁵</p> <p>EC48 (shrimp) 48 hr = 6 mg/L¹⁵</p> <p>ErC-EC72 (Fungi) 96 hr = 12.5 mg/L¹⁵</p> <p><u>Xylene</u></p> <p>LC50 (fish) 96 hr = 3.30 mg/L¹⁶</p>
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Long term aquatic hazard	<p>Harmful to aquatic life with long lasting effects</p> <p><u>1-Butanol</u> NOEC shrimp = NOEC (21 days) 4.1 mg/L mg/L¹¹</p> <p><u>Butyl Acetate</u> NOEC fish = 23 mg/L³ NOEC shrimp = 23 mg/L³ NOEC fungi = 196 mg/L³</p> <p><u>Carbon Black</u> NOEC shrimp = 3.20 mg/L¹⁹ NOEC fungi = 10.00 mg/L¹⁹</p> <p><u>Methanol</u> NOEC fish = 446.7 mg/L⁵ NOEC shrimp = 208 mg/L¹⁴</p> <p><u>Titanium Dioxide</u> NOEC shrimp = 1.72-5 mg/L²⁰ NOEC fungi = 1 mg/L²¹</p> <p><u>Toluene</u> NOEC fish = 1.4 mg/L¹⁷ NOEC shrimp = 7.4 mg/L¹⁷ NOEC fungi = 10 mg/L¹⁷</p> <p><u>Xylene</u> NOEC fish = 1.30 mg/L¹⁸ NOEC shrimp = 1.57 mg/L¹⁰ NOEC fungi = 0.44 mg/L¹⁰</p>
Persistence and degradability	Rapidly degradable (Butyl Acetate, Methanol, Toluene, Xylene)
Bioaccumulative potential	<p>Bioaccumulative potential</p> <p><u>1-Butanol</u> log KOW = 0.88²⁹ BCF = 3²⁹</p> <p><u>1-benzyl 2-butyl benzene-1,2-dicarboxylate</u> log KOW = 4.84 @ 20 °C²</p> <p><u>Butyl Acetate</u> log KOW = 1.78³⁰ BCF = 7.00³⁰</p> <p><u>Methanol</u> log KOW = -0.77³¹ BCF = 10³¹</p> <p><u>Toluene</u> log KOW = 2.73³² BCF = 13³²</p> <p><u>Xylene</u> log KOW = 3.20³³ BCF = 14.80³³</p>
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 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: 08 June 2022

References

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