

1. IDENTIFICATION OF THE MIXTURE AND OF THE SUPPLIER	
Product Identifier	
Product	Acrylic Top Coat Fine Bright Bronze []
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 2
Skin corrosion/irritation	Category 2
Eye damage/irritation	Category 1
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 1
Hazardous to the aquatic environment - long-term hazard	Category 1
Remark:	
Percentage of mixture consisting of ingredient(s) of unknown oral toxicity: 24.99%	
Percentage of mixture consisting of ingredient(s) of unknown dermal toxicity: 39.81%	
Percentage of mixture consisting of ingredient(s) of unknown inhalation toxicity: 62.95%	

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	
H310 Fatal in contact with skin	
H315 Causes skin irritation	
H318 Causes serious eye damage	
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
H400 Very toxic to aquatic life
H410 Very toxic 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 not 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.
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.
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 occurs 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.
P391 Collect spillage.

[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-ACETOXY-2-ETHOXYETHANE	111-15-9	6.81 - 10.57
1-Butanol	71-36-3	2.18 - 3.52
1-benzyl 2-butyl benzene-1,2-dicarboxylate	85-68-7	1.53 - 4.23
2-Butanone	78-93-3	3.37 - 8.18
2-Methylpropanol-1;2-Methylpropyl alcoho	78-83-1	2.13 - 3.83
4-Methyl-2-pentanone	108-10-1	0.86 - 1.62
Acrylic resin	-	9.44 - 18.91
Aluminum	7429-90-5	4.25 - 11.65
Butyl Acetate	123-86-4	6.81 - 22.67
Ethyl Benzene	100-41-4	0.78 - 1.68
Melamine Polymer	-	1.92 - 5.95
Solvent naphtha	64742-95-6	2.98 - 4.05
Toluene	108-88-3	17.09 - 28.40
Xylene	1330-20-7	1.29 - 2.89
cellulose acetate butyrate	9004-36-8	2.39 - 5.71
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 vomitting unless directed to do so by medical personnel.	
Most important symptoms/effects, acute and delayed	Dizziness. Drowsiness. Headache. Nausea. Vomitting. Weakness. Unconsciousness. Skin and eye redness. Pain. Nausea. Vomitting.	
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 misture 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-ACETOXY-2-ETHOXYETHANE</u> OSHA PEL-TWA 100⁴⁴ Skin notification Y⁴⁴ NIOSH REL-TWA 0.5⁴⁴ Skin notification Y⁴⁴ ACGIH TLV-TWA 5⁴⁴ Skin notification Y⁴⁴ CAL/OSHA PEL-TWA 5⁴⁴ Skin notification Y⁴⁴ <u>1-Butanol</u> OSHA PEL-TWA 100 ppm (300 mg/m³)³³ Skin notification N³³ NIOSH REL-C 50 ppm (150 mg/m³)³³ Skin notification Y³³ ACGIH TLV-TWA 20 ppm [1998]³³ Skin notification N³³ CAL/OSHA PEL-C 50 ppm (150 mg/m³)³³ Skin notification Y³³ <u>1-benzyl 2-butyl benzene-1,2-dicarboxylate</u> <u>2-Butanone</u> OSHA PEL-TWA 200 ppm (590 mg/m³)⁶⁶ Skin notification N⁶⁶ NIOSH REL-TWA 200 ppm (500 mg/m³)⁶⁶ REL-STEL 300 ppm (885 mg/m³)⁶⁶ Skin notification N⁶⁶ ACGIH TLV-TWA 200 ppm [1992]⁶⁶ TLV-STEL 300 ppm [1992]⁶⁶ Skin notification N⁶⁶ CAL/OSHA PEL-TWA 200 ppm (590 mg/m³)⁶⁶ PEL-STEL 300 ppm (885 mg/m³)⁶⁶ Skin notification N⁶⁶ <u>2-Methylpropanol-1;2-Methylpropyl alcohol</u> OSHA PEL-TWA 100¹⁴ Skin notification N¹⁴ NIOSH REL-TWA 50¹⁴ Skin notification N¹⁴

ACGIH

Skin notification N¹⁴

CAL/OSHA

Skin notification N¹⁴

4-Methyl-2-pentanone
OSHA

PEL-TWA 100⁶⁷

Skin notification N⁶⁷

NIOSH

REL-TWA 50⁶⁷

REL-STEL 75⁶⁷

Skin notification N⁶⁷

ACGIH

TLV-TWA 20⁶⁷

TLV-STEL 75⁶⁷

Skin notification N⁶⁷

CAL/OSHA

PEL-TWA 50⁶⁷

PEL-STEL 75⁶⁷

Skin notification N⁶⁷

Acrylic resin

Aluminum

OSHA

PEL-TWA 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction)⁵⁷

Skin notification N⁵⁷

NIOSH

REL-TWA 10 mg/m³ (total dust), 5 mg/m³ (respirable fraction)⁵⁷

Skin notification N⁵⁷

ACGIH

TLV-TWA 1 mg/m³ (respirable particulate matter) [2007]⁵⁷

Skin notification N⁵⁷

CAL/OSHA

PEL-TWA 10 mg/m³ (total dust), 5 mg/m³ (respirable fraction)⁵⁷

Skin notification N⁵⁷

Butyl Acetate

OSHA

PEL-TWA 150¹⁵

Skin notification N¹⁸

NIOSH

REL-TWA 150¹⁸

REL-STEL 200¹⁸

Skin notification N¹⁸

ACGIH

TLV-TWA 50¹⁸

TLV-STEL 150¹⁸

Skin notification N

CAL/OSHA

PEL-TWA 150¹⁸

PEL-STEL 200¹⁸

Skin notification N¹⁸

Ethyl Benzene

OSHA

PEL-TWA 100³⁵

Skin notification N³⁵

NIOSH

REL-TWA 100³⁵

REL-STEL 125³⁵

	Skin notification N³⁵ ACGIH TLV-TWA 20³⁵ Skin notification N³⁵ CAL/OSHA PEL-TWA 100³⁵ PEL-STEL 125³⁵ Skin notification N³⁵ <u>Melamine Polymer</u> <u>Solvent naphtha</u> <u>Toluene</u> OSHA PEL-TWA 200 ppm¹⁶ PEL-C 300 ppm; 500 ppm (Peak) [10 min maximum in an 8 hr shift]¹⁶ Skin notification N¹⁶ NIOSH REL-TWA 100 ppm (375 mg/m³)¹⁶ REL-STEL 150 ppm (560 mg/m³)¹⁶ Skin notification N¹⁶ ACGIH TLV-TWA 20 ppm [2006]¹⁶ Skin notification N¹⁶ CAL/OSHA PEL-TWA 10 ppm (37 mg/m³)¹⁶ PEL-STEL 150 ppm (560 mg/m³)¹⁶ PEL-C 500 ppm¹⁶ Skin notification Y¹⁶ <u>Xylene</u> OSHA PEL-TWA 100¹⁷ Skin notification N¹⁷ NIOSH REL-TWA 100¹⁷ Skin notification N¹⁷ ACGIH TLV-TWA 100¹⁷ TLV-STEL 150¹⁷ Skin notification N¹⁷ CAL/OSHA PEL-TWA 100¹⁷ PEL-STEL 150¹⁷ PEL-C 300¹⁷ Skin notification N¹⁷ <u>cellulose acetate butyrate</u>
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 paint
Odor	Organic solvent
Odor threshold	Not Available
pH	Not Available
Melting point/freezing point	Not Available
Initial boiling point and boiling range	Not Available
Flash point	lower than 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	0.90 - 1.00
Solubility(ies)	Soluble in Organic solvent
Partition coefficient n-Octanol-water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
Viscosity	75-85 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)	ATEmix = 4074.33 mg/kg (Category 5) 1-ACETOXY-2-ETHOXYETHANE LD50 (rat) oral = 2900.00 mg/kg⁴⁰ 1-Butanol LD50 (rat) oral = 790.00 mg/kg²³ 1-benzyl 2-butyl benzene-1,2-dicarboxylate LD50 (rat) oral = 2330.00 mg/kg⁶¹ 2-Butanone LD50 (rat) oral = 2900.00 mg/kg⁶² 2-Methylpropanol-1;2-Methylpropyl alcoho LD50 (rat) oral = 2460.00 mg/kg¹ Aluminum LD50 (rat) oral = 15900.00 mg/kg⁵⁶ Butyl Acetate LD50 (rat) oral = 10736.00 mg/kg² Ethyl Benzene LD50 (rat) oral = 3500.00 mg/kg²⁵ Solvent naphtha LD50 (rat) oral = 5000.00 mg/kg²⁶ Toluene LD50 (rat) oral = 5000.00 mg/kg³
Acute toxicity (dermal)	ATEmix = 58.32 mg/kg (Classify 2) 1-ACETOXY-2-ETHOXYETHANE LD50 (rabbit) dermal = 10300.00 mg/kg⁴⁰ 1-Butanol LD50 (rabbit) dermal = 3400.00 mg/kg²³ 2-Butanone LD50 (rabbit) dermal = 8000.00 mg/kg⁶² Butyl Acetate LD50 (rabbit) dermal = 16.00 mg/kg² Solvent naphtha LD50 (rabbit) dermal = 2000.00 mg/kg²⁶ Toluene LD50 (rabbit) dermal = 14100.00 mg/kg³
Acute toxicity (dermal)	ATEmix = 251.68 mg/kg (Not classified) 1-Butanol LC50 (rat) inhalation = 8000.00 mg/kg²³ 2-Butanone LC50 (rat) inhalation = 34500.00 mg/kg⁶² 4-Methyl-2-pentanone LC50 (rat) inhalation = 11.60 mg/kg⁶³ Aluminum LC50 (rat) inhalation = 888.00 mg/kg⁵⁶ Butyl Acetate LC50 (rat) inhalation = 740.00 mg/kg² Xylene LC50 (rat) inhalation = 6360.00 mg/kg⁴
Skin corrosion and skin irritation	Causes skin irritation (2-Methylpropanol-1;2-Methylpropyl alcoho,Toluene,Xylene)
Serious eye damage or eye irritation	Causes serious eye damage (1-Butanol,2-Butanone,2-Methylpropanol-1;2-Methylpropyl alcoho,4-Methyl-2-pentanone)
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,2-Butanone,2-Methylpropanol-1;2-Methylpropyl alcoho,4-Methyl-2-pentanone ,Butyl Acetate,Toluene)
Specific target organ toxicity following repeated exposure	May cause damage to organs through prolonged or repeated exposure (Ethyl Benzene,Toluene)
Aspiration hazard	May be fatal if swallowed and enters airways (Ethyl Benzene,Solvent naphtha,Toluene)

12. ECOLOGICAL INFORMATION	
Acute aquatic hazard	Very toxic to aquatic life <u>1-ACETOXY-2-ETHOXYETHANE</u> LC50 (fish) 96 hr = 40 mg/L⁴³ <u>1-Butanol</u> LC50 (fish) 96 hr = 100 mg/L²³ EC48 (shrimp) 48 hr = 1983 mg/L²³ <u>2-Butanone</u> LC50 (fish) 96 hr = 3200 mg/L⁶² <u>2-Methylpropanol-1;2-Methylpropyl alcoho</u>

	LC50 (fish) 96 hr = 1430 mg/L⁵ EC48 (shrimp) 48 hr = 1100 mg/L⁵ ErC-EC72 (Fungi) 96 hr = 593 mg/L⁵ <u>4-Methyl-2-pentanone</u> LC50 (fish) 96 hr = 179 mg/L⁶⁵ EC48 (shrimp) 48 hr = 200 mg/L⁶⁵ <u>Aluminum</u> LC50 (fish) 96 hr = 0.078 mg/L⁵⁶ EC48 (shrimp) 48 hr = 1.5 mg/L⁵⁶ ErC-EC72 (Fungi) 96 hr = 0.9625 mg/L⁵⁶ <u>Butyl Acetate</u> LC50 (fish) 96 hr = 18 mg/L² EC48 (shrimp) 48 hr = 32 mg/L² <u>Ethyl Benzene</u> LC50 (fish) 96 hr = 4.20 mg/L³⁰ EC48 (shrimp) 48 hr = 2.10 mg/L²⁹ ErC-EC72 (Fungi) 96 hr = 4.60 mg/L²⁹ <u>Toluene</u> LC50 (fish) 96 hr = 7.3 mg/L¹⁰ EC48 (shrimp) 48 hr = 6 mg/L¹⁰ ErC-EC72 (Fungi) 96 hr = 12.5 mg/L¹⁰ <u>Xylene</u> LC50 (fish) 96 hr = 3.30 mg/L¹¹
Long term aquatic hazard	Very toxic to aquatic life with long lasting effects <u>1-Butanol</u> NOEC shrimp = NOEC (21 days) 4.1 mg/L mg/L²⁷ <u>2-Methylpropanol-1;2-Methylpropyl alcoho</u> NOEC shrimp = 20 mg/L⁵ NOEC fungi = 53 mg/L⁵ <u>4-Methyl-2-pentanone</u> NOEC shrimp = 30 mg/L⁶⁵ <u>Aluminum</u> NOEC fish = 0.0251 mg/L⁵⁶ NOEC fungi = 0.0054 mg/L⁵⁶ <u>Butyl Acetate</u> NOEC fish = 23 mg/L² NOEC shrimp = 23 mg/L² NOEC fungi = 196 mg/L² <u>Ethyl Benzene</u> NOEC fish = 3.30 mg/L²⁹ NOEC shrimp = 1 mg/L²⁹ NOEC fungi = 3.4 mg/L²⁹ <u>Toluene</u> NOEC fish = 1.4 mg/L¹² NOEC shrimp = 7.4 mg/L¹² NOEC fungi = 10 mg/L¹² <u>Xylene</u> NOEC fish = 1.30 mg/L¹³ NOEC shrimp = 1.57 mg/L⁷ NOEC fungi = 0.44 mg/L⁷
Persistence and degradability	Rapidly degradable (2-Methylpropanol-1;2-Methylpropyl alcoho,4-Methyl-2-pentanone ,Butyl Acetate,Ethyl Benzene,Toluene,Xylene)
Bioaccumulative potential	Bioaccumulative potential <u>1-ACETOXY-2-ETHOXYETHANE</u> log KOW = 0.24⁴⁶

	BCF = 3⁴⁶ <u>1-Butanol</u> log KOW = 0.88³⁷ BCF = 3³⁷ <u>1-benzyl 2-butyl benzene-1,2-dicarboxylate</u> log KOW = 4.84 @ 20 °C⁶¹ <u>2-Butanone</u> log KOW = 0.29⁶⁸ BCF = 3⁶⁸ <u>2-Methylpropanol-1;2-Methylpropyl alcoho</u> log KOW = 0.76¹⁹ BCF = 3¹⁹ <u>4-Methyl-2-pentanone</u> log KOW = 1.31⁶⁹ BCF = 3⁶⁹ <u>Butyl Acetate</u> log KOW = 1.78²⁰ BCF = 7.00²⁰ <u>Ethyl Benzene</u> log KOW = 3.03²⁹ BCF = 110²⁹ <u>Toluene</u> log KOW = 2.73²¹ BCF = 13²¹ <u>Xylene</u> log KOW = 3.20²² BCF = 14.80²²
Mobility in soil	The product is insoluble 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: 26 August 2022

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