

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

Product	Acrylic Top Coat Hyper Bronze [56-AL30]
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 - dermal	Category 1
Skin corrosion/irritation	Category 2
Eye damage/irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Hazardous to the aquatic environment - acute hazard	Category 3

Remark:

Percentage of mixture consisting of ingredient(s) of unknown oral toxicity: 43.20%

Percentage of mixture consisting of ingredient(s) of unknown dermal toxicity: 51.20%

Percentage of mixture consisting of ingredient(s) of unknown inhalation toxicity: 6.99%

GHS label elements

Pictogram or symbol



Signal word

Danger

Hazard statement:

H224 Extremely flammable liquid and vapour

H310 Fatal in contact with skin

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

H402 Harmful to aquatic life

Precautionary statement**[PREVENTION]**

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.

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.

[RESPONSE]

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.

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

P310 Immediately call a POISON CENTER or doctor / physician.

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

P321 Specific treatment (see on this label).

P322 Specific measures (see on this label).

P332+P313 IF skin irritation occurs Get medical advice / attention.

P337+P313 IF eye irritation persists Get medical advice / attention.

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)
Diacetone alcohol	123-42-2	1.04 - 2.19
4-Methyl-2-pentanone	108-10-1	13.23 - 26.65
Acetone	67-64-1	0.52 - 1.43
Butyl Acetate	123-86-4	19.67 - 52.35
Cellulose nitrate	9004-70-1	0.78 - 1.39
Ethyl acetate	141-78-6	6.78 - 9.67
Solvent naphtha	64742-95-6	2.74 - 4.05
Toluene	108-88-3	0.78 - 1.84
Xylene	1330-20-7	17.62 - 25.27
Others	-	0.01 - 0.01

4. FIRST AID 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 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-sparkling 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 no leave containers open. Avoid repeated or prolonged contact with skin.
Conditions for safe storage, including any incompatibilites	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>Diacetone alcohol</u> OSHA PEL-TWA 50 ²⁰ Skin notification N ²⁰ NIOSH REL-TWA 50 ²⁰ Skin notification N ²⁰ ACGIH TLV-TWA 50 ²⁰ Skin notification N ²⁰ CAL/OSHA PEL-TWA 50 ²⁰ Skin notification N ²⁰ <u>4-Methyl-2-pentanone</u> OSHA PEL-TWA 100 ²¹ Skin notification N ²¹ NIOSH REL-TWA 50 ²¹ REL-STEL 75 ²¹ Skin notification N ²¹ ACGIH TLV-TWA 20 ²¹ TLV-STEL 75 ²¹ Skin notification N ²¹ CAL/OSHA PEL-TWA 50 ²¹ PEL-STEL 75 ²¹ Skin notification N ²¹ <u>Acetone</u> OSHA PEL-TWA 1000 ²² Skin notification N ²² NIOSH REL-TWA 250 ²² Skin notification N ²²
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ACGIH
 TLV-TWA 2500²²
 TLV-STEL 500²²
 Skin notification N²²
 CAL/OSHA
 PEL-TWA 500²²
 PEL-STEL 750²²
 PEL-C 3000²²
 Skin notification N²²
Butyl Acetate
 OSHA
 PEL-TWA 150²³
 Skin notification N²⁷
 NIOSH
 REL-TWA 150²⁷
 REL-STEL 200²⁷
 Skin notification N²⁷
 ACGIH
 TLV-TWA 50²⁷
 TLV-STEL 150²⁷
 Skin notification N
 CAL/OSHA
 PEL-TWA 150²⁷
 PEL-STEL 200²⁷
 Skin notification N²⁷
Cellulose nitrate
Ethyl acetate
 OSHA
 PEL-TWA 400²⁴
 Skin notification N²⁴
 NIOSH
 REL-TWA 400²⁴
 Skin notification N²⁴
 ACGIH
 TLV-TWA 400²⁴
 Skin notification N²⁴
 CAL/OSHA
 PEL-TWA 400²⁴
 Skin notification N²⁴
Solvent naphtha
Toluene
 OSHA
 PEL-TWA 200 ppm²⁵
 PEL-C 300 ppm; 500 ppm (Peak) [10 min maximum in an 8 hr shift]²⁵
 Skin notification N²⁵
 NIOSH
 REL-TWA 100 ppm (375 mg/m³)²⁵
 REL-STEL 150 ppm (560 mg/m³)²⁵
 Skin notification N²⁵
 ACGIH
 TLV-TWA 20 ppm [2006]²⁵
 Skin notification N²⁵
 CAL/OSHA
 PEL-TWA 10 ppm (37 mg/m³)²⁵
 PEL-STEL 150 ppm (560 mg/m³)²⁵
 PEL-C 500 ppm²⁵
 Skin notification Y²⁵
Xylene
 OSHA
 PEL-TWA 100²⁶
 Skin notification N²⁶
 NIOSH

	REL-TWA 100 ²⁶ Skin notification N ²⁶ ACGIH TLV-TWA 100 ²⁶ TLV-STEL 150 ²⁶ Skin notification N ²⁶ CAL/OSHA PEL-TWA 100 ²⁶ PEL-STEL 150 ²⁶ PEL-C 300 ²⁶ Skin notification N ²⁶ <u>Others</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	0.85 - 0.95
Solubility(ies)	Soluble in Organic solvent
Partition coefficient n-Octanol-water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
Viscosity	8-12 second by Ford cup No.4
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 = 9353.38 mg/kg (Not classified)</p> <p>Diacetone alcohol LD50 (rat) oral = 4000.00 mg/kg¹</p> <p>Acetone LD50 (rat) oral = 5800.00 mg/kg²</p> <p>Butyl Acetate LD50 (rat) oral = 10736.00 mg/kg³</p> <p>Ethyl acetate LD50 (rat) oral = 11.00 mg/kg⁴</p> <p>Solvent naphtha LD50 (rat) oral = 5000.00 mg/kg⁵</p> <p>Toluene LD50 (rat) oral = 5000.00 mg/kg⁶</p>
Acute toxicity (dermal)	<p>ATEmix = 18.03 mg/kg (Classify 1)</p> <p>Diacetone alcohol LD50 (rabbit) dermal = 14.50 mg/kg¹</p> <p>Acetone LD50 (rabbit) dermal = 7426.00 mg/kg²</p> <p>Butyl Acetate LD50 (rabbit) dermal = 16.00 mg/kg³</p> <p>Solvent naphtha LD50 (rabbit) dermal = 2000.00 mg/kg⁵</p> <p>Toluene LD50 (rabbit) dermal = 14100.00 mg/kg⁶</p>
Acute toxicity (dermal)	<p>ATEmix = 52.84 mg/kg (Not classified)</p> <p>4-Methyl-2-pentanone LC50 (rat) inhalation = 11.60 mg/kg⁷</p> <p>Acetone LC50 (rat) inhalation = 76.00 mg/kg²</p> <p>Butyl Acetate LC50 (rat) inhalation = 740.00 mg/kg³</p> <p>Ethyl acetate LC50 (rat) inhalation = 4000.00 mg/kg⁴</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 (4-Methyl-2-pentanone ,Acetone,Ethyl acetate)
Respirator and skin sensitization	Not classified
Skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity following single exposure	May cause respiratory irritation (4-Methyl-2-pentanone ,Acetone,Butyl Acetate,Ethyl acetate,Toluene)
Specific target organ toxicity following repeated exposure	Not classified
Aspiration hazard	Not classified

12. ECOLOGICAL INFORMATION	
Acute aquatic hazard	<p>Harmful to aquatic life</p> <p><u>4-Methyl-2-pentanone</u> LC50 (fish) 96 hr = 179 mg/L¹¹ EC48 (shrimp) 48 hr = 200 mg/L¹¹</p> <p><u>Acetone</u> LC50 (fish) 96 hr = 4740 mg/L²</p> <p><u>Butyl Acetate</u> LC50 (fish) 96 hr = 18 mg/L³ EC48 (shrimp) 48 hr = 32 mg/L³</p> <p><u>Ethyl acetate</u> LC50 (fish) 96 hr = 230 mg/L¹² ErC-EC72 (Fungi) 96 hr = 5600 mg/L¹²</p> <p><u>Toluene</u> LC50 (fish) 96 hr = 7.3 mg/L¹⁶ EC48 (shrimp) 48 hr = 6 mg/L¹⁶ ErC-EC72 (Fungi) 96 hr = 12.5 mg/L¹⁶</p> <p><u>Xylene</u> LC50 (fish) 96 hr = 3.30 mg/L¹⁷</p>
Long term aquatic hazard	No information
Persistence and degradability	Rapidly degradable (4-Methyl-2-pentanone ,Acetone,Butyl Acetate,Ethyl acetate,Toluene,Xylene)
Bioaccumulative potential	<p>Bioaccumulative potential</p> <p><u>4-Methyl-2-pentanone</u> log KOW = 1.31²⁸ BCF = 3²⁸</p> <p><u>Acetone</u> log KOW = -0.24²⁹ BCF = 0.69²⁹</p> <p><u>Butyl Acetate</u> log KOW = 1.78³⁰ BCF = 7.00³⁰</p> <p><u>Ethyl acetate</u> log KOW = 0.73³¹ BCF = 3³¹</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

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References

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