

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

Product	Clearcoat 2K 4:1 Clearguard [45-8050]
Recommended use of chemical	Use as coating
Restriction on use	No open flames, No sparks, and No smoking

Supplier's details

Company	Big-Ben Chemical Company Limited
Address	168 Mu 2 Donkhaidee 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
Eye damage/irritation	Category 2A
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: 51.79%

Percentage of mixture consisting of ingredient(s) of unknown dermal toxicity: 72.31%

Percentage of mixture consisting of ingredient(s) of unknown inhalation toxicity: 78.68%

GHS label elements

Pictogram or symbol



Signal word

Danger

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

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

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]

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.

[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.

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.

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.

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)
1,2,3-Trimethyl Benzen	526-73-8	3.19 - 3.69
1,2,4-Trimethyl Benzene	95-63-6	19.13 - 22.15
1,3,5-Trimethyl Benzen	108-67-8	3.19 - 3.69
Acrylic Polymer	-	36.36 - 42.10
Butyl Acetate	123-86-4	6.06 - 7.02
Cumene	98-82-8	3.19 - 3.69

Dimethyl glutarate	1119-40-0	2.53 - 2.93
Ethyl Benzene	100-41-4	10.91 - 12.63
Xylene	1330-20-7	7.27 - 8.42
n-Propyl Benzene	103-65-1	3.19 - 3.69

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 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>Butyl Acetate</u> OSHA PEL-TWA 150 ⁵¹ Skin notification N ⁵¹ NIOSH REL-TWA 150 ⁵¹ REL-STEL 200 ⁵¹ Skin notification N ⁵¹ ACGIH TLV-TWA 50 ⁵¹ TLV-STEL 150 ⁵¹ Skin notification N CAL/OSHA PEL-TWA 150 ⁵¹ PEL-STEL 200 ⁵¹
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Skin notification N¹

Safe Work Australia (Australia, 4/2024)

TWA : 50 ppm 8 hours. ¹⁶

TWA : 270 mg/m³ 8 hours. ¹⁶

STEL : 100 ppm 15 minutes. ¹⁶

STEL : 541 mg/m³ 15 minutes. ¹⁶

Cumene

OSHA

REL-TWA 50⁸⁵

Skin notification Y⁸⁶

NIOSH

REL-TWA 50⁸⁶

Skin notification Y⁸⁶

ACGIH

TLV-TWA 50⁸⁶

Skin notification N⁸⁶

CAL/OSHA

REL-TWA 50⁸⁶

Skin notification Y⁸⁶

Safe Work Australia (Australia, 4/2024)

TWA : 25 ppm 8 hours. ¹⁶

TWA : 125 mg/m³ 8 hours. ¹⁶

STEL : 75 ppm 15 minutes. ¹⁶

STEL : 375 mg/m³ 15 minutes. ¹⁶

Ethyl Benzene

OSHA

REL-TWA 100¹⁴

Skin notification N¹⁴

NIOSH

REL-TWA 100¹⁴

REL-STEL 125¹⁴

Skin notification N¹⁴

ACGIH

TLV-TWA 20¹⁴

Skin notification N¹⁴

CAL/OSHA

REL-TWA 100¹⁴

REL-STEL 125¹⁴

Skin notification N¹⁴

Safe Work Australia (Australia, 4/2024)

TWA : 20 ppm 8 hours. ¹⁶

TWA : 87 mg/m³ 8 hours. ¹⁶

Xylene

OSHA

REL-TWA 100¹⁵

Skin notification N¹⁵

NIOSH

REL-TWA 100¹⁵

Skin notification N¹⁵

ACGIH

TLV-TWA 100¹⁵

TLV-STEL 150¹⁵

Skin notification N¹⁵

CAL/OSHA

REL-TWA 100¹⁵

PEL-TWA 100

PEL-STEL 150¹⁵

PEL-C 300¹⁵

Skin notification N¹⁵

Safe Work Australia (Australia, 4/2024)

TWA : 80 ppm 8 hours. ¹⁸

TWA : 350 mg/m³ 8 hours. ¹⁸

STEL : 150 ppm 15 minutes. ¹⁸

STEL : 655 mg/m³ 15 minutes. ¹⁸

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

Physical state	Liquid
Colour	Transparent
Odour	Organic solvent
pH	Not available
Melting point/freezing point	Not available
Boiling point or initial boiling point and boiling range	136.0 °C (276.8 °F) (Ethyl Benzene)
Flash point	12.8 °C (55.0 °F) (Ethyl Benzene)
Flammability	Flammable
Lower and upper explosion limit/flammability limit	Not available
Vapour pressure	16 hPa at 20 °C (Butyl Acetate)
Density and/or relative density	0.85 - 0.95 g/cm ³
Relative vapour density	Not available
Solubility	Soluble in Organic solvent
Partition coefficient n-octanol/water (log value)	Not applicable
Auto-ignition temperature	430.0 °C (806.0 °F) (Ethyl Benzene)
Decomposition temperature	Not applicable
Viscosity	20 - 21 second 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 = 3509.56 mg/kg (Category 5) 1,2,4-Trimethyl Benzene LD50 (rat) oral = 3280.00 mg/kg ¹⁹ Butyl Acetate LD50 (rat) oral = 10736.00 mg/kg ²⁴ Cumene LD50 (rat) oral = 1400.00 mg/kg ² Dimethyl alutarate LD50 (rat) oral = 5000.00 mg/kg ⁷⁶
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Acute toxicity (dermal)	Ethyl Benzene LD50 (rat) oral = 3500.00 mg/kg ² n-Propyl Benzene LD50 (rat) oral = 6040.00 mg/kg ⁷⁷ ATEmix = 65.45 mg/kg (Category 2) 1,2,4-Trimethyl Benzene LD50 (rabbit) dermal = 3160.00 mg/kg ¹⁹ Butyl Acetate LD50 (rabbit) dermal = 16.00 mg/kg ²⁴
Acute toxicity (inhalation)	Not available
Skin corrosion and skin irritation	Causes skin irritation (1,2,4-Trimethyl Benzene,Xylene)
Serious eye damage or eye irritation	Causes serious eye irritation (1,2,4-Trimethyl Benzene)
Respirator and skin sensitization	Not classified
Skin sentization	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 (1,2,4-Trimethyl Benzene,1,3,5-Trimethyl Benzen,Butyl Acetate,Cumene)
Specific target organ toxicity following repeated exposure	May cause damage to organs through prolonged or repeated exposure (Ethyl Benzene)
Aspiration hazard	May be fatal if swallowed and enters airways (Cumene,Ethyl Benzene)

12. ECOLOGICAL INFORMATION

Acute aquatic hazard	Toxic to aquatic life <u>1,2,4-Trimethyl Benzene</u> LC50 (fish) 96 hr = 7.72 mg/L ²⁸ EC48 (shrimp) 48 hr = 3.60 mg/L ²⁸ <u>1,3,5-Trimethyl Benzen</u> LC50 (fish) 96 hr = 12.52 mg/L ³⁸ ErC-EC72 (Fungi) 96 hr = 53.00 mg/L ³⁸ <u>Butyl Acetate</u> LC50 (fish) 96 hr = 18 mg/L ²⁴ EC48 (shrimp) 48 hr = 32 mg/L ²⁴ <u>Cumene</u> LC50 (fish) 96 hr = 2.70 mg/L ⁸⁰ EC48 (shrimp) 48 hr = 7.40 mg/L ⁸⁰ ErC-EC72 (Fungi) 96 hr = 2.60 mg/L ⁸⁰ <u>Ethyl Benzene</u> LC50 (fish) 96 hr = 4.20 mg/L ⁹ EC48 (shrimp) 48 hr = 2.10 mg/L ⁸ ErC-EC72 (Fungi) 96 hr = 4.60 mg/L ⁸ <u>Xylene</u> LC50 (fish) 96 hr = 3.30 mg/L ⁵
Long term aquatic hazard	Harmful to aquatic life with long lasting effects <u>1,3,5-Trimethyl Benzen</u> NOEC fish = 0.40 mg/L ⁷⁸ NOEC shrimp = 24.20 mg/L ⁷⁸ <u>Butyl Acetate</u> NOEC fish = 23 mg/L ²⁴ NOEC shrimp = 23 mg/L ²⁴ NOEC fungi = 196 mg/L ²⁴ <u>Cumene</u> NOEC fish = 0.38 mg/L ⁷⁹ NOEC shrimp = 0.35 mg/L ⁷⁹ NOEC fungi = 0.73-1.49 mg/L ⁷⁹ <u>Ethyl Benzene</u> NOEC fish = 3.30 mg/L ⁸ NOEC shrimp = 1 mg/L ⁸ NOEC fungi = 3.4 mg/L ⁸

	<u>Xylene</u> NOEC fish = 1.30 mg/L¹⁰ NOEC shrimp = 1.57 mg/L⁶ NOEC fungi = 0.44 mg/L⁶
Persistence and degradability	Rapidly degradable (Butyl Acetate,Dimethyl glutarate,Ethyl Benzene,Xylene,n-Propyl Benzene)
Bioaccumulative potential	Bioaccumulative potential
	<u>1,2,3-Trimethyl Benzen</u> log KOW = 3.66⁸¹ BCF = 133-259⁸¹
	<u>1,2,4-Trimethyl Benzene</u> log KOW = 3.78²⁸ BCF = 31.275²⁸
	<u>1,3,5-Trimethyl Benzen</u> log KOW = 3.42⁸² BCF = 23-342⁸²
	<u>Butyl Acetate</u> log KOW = 1.78⁴⁴ BCF = 7.00⁴⁴
	<u>Cumene</u> log KOW = 3.66⁸³ BCF = 35.50⁸³
	<u>Ethyl Benzene</u> log KOW = 3.03⁸ BCF = 110⁸
	<u>Xylene</u> log KOW = 3.20¹³ BCF = 14.80¹³
	<u>n-Propyl Benzene</u> log KOW = 3.69⁸⁴ BCF = 138⁸⁴
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
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Toxic substance control act (TSCA)

All component in this product are listed

16. OTHER INFORMATION

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