1. IDENTIFICATION OF THE MIXTURE AND OF THE SUPPLIER

Product Identifier

Product	Thinner for Wash Primer [86-114]
Recommended use of chemical	Use as Thinner
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
Skin corrosion/irritation	Category 2
Eye damage/irritation	Category 2A
Toxic to reproduction	Category 2
Specific target organ toxicity (single exposure)	Category 1
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration hazard	Category 1
Hazardous to the aquatic environment - acute hazard	Category 2

Remark:

Percentage of mixture consisting of ingredient(s) of unknown oral toxicity: 0.00%

Percentage of mixture consisting of ingredient(s) of unknown dermal toxicity: 20.00%

Percentage of mixture consisting of ingredient(s) of unknown inhalation toxicity: 70.00%

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

H315 Causes skin irritation

H319 Causes serious eye irritation

H361 Suspected of damaging fertility or the unborn child

H370 Causes damage to organs

H373 May cause damage to organs through prolonged or repeated exposure

H401 Toxic to aquatic life

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.
P264 Wash thoroughly after handling.
P270 Do no eat, drink or smoke when using this product.
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+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.
P305+P351+P338 IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P307+P311 IF exposed Call a POISON CENTER or doctor / physician.
P308+P313 IF exposed or concernedGet 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).
P331 Do NOT induce vomiting.
P332+P313 IF skin irritation occursGet medical advice / attention.
P337+P313 IF eye irritation persistsGet medical advice / attention.
P362 Take off contaminated clothing and wash before reuse.
P370+P378 In case of fire Use dry sand, dry chemical or alcohol-resistant foam for extinction.

[STORAGE]

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)
2-BUTOXYETHANOL	111-76-2	2.85 - 3.30
2-PROPANOL	67-63-0	4.75 - 5.50
Acetone	67-64-1	4.75 - 5.50
Methanol	67-56-1	19.00 - 22.00
Toluene	108-88-3	63.65 - 73.70

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 contaiminated 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	Dizziness. Drowsiness. Headache. Nausea. Vomitting. Weakness. Unconsciousness. Skin and eye

delayed	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	2-BUTOXYETHANOL OSHA PEL-TWA 50[32] Skin notification Y[32] NIOSH REL-TWA 5[32] Skin notification Y[32] ACGIH TLV-TWA 20[32] Skin notification N[32] CAL/OSHA PEL-TWA 20[32] Skin notification Y[32] Safe Work Australia (Australia, 4/2024) TWA : 10 ppm 8 hours. [14] TWA : 49 mg/m^3 8 hours. [14] STEL : 40 ppm 15 minutes. [14] STEL : 196 mg/m^3 15 minutes. [14] 2-PROPANOL OSHA PEL-TWA 400[33] Skin notification N[33] NIOSH REL-TWA 400[33] REL-STEL 500[33] Skin notification N[33] ACGIH TLV-TWA 200[33] TLV-STEL 400[33] Safe Work Australia (Australia, 4/2024) TWA : 200 ppm 8 hours. [14]

TWA : 491 mg/m³ 8 hours. [14]
STEL : 400 ppm 15 minutes. [14]
STEL : 984 mg/m³ 15 minutes. [14]

Acetone
OSHA
PEL-TWA 1000[34]
Skin notification N[34]
NIOSH
REL-TWA 250[34]
Skin notification N[34]
ACGIH
TLV-TWA 2500[34]
TLV-STEL 500[34]
Skin notification N[34]
CAL/OSHA
PEL-TWA 500[34]
PEL-STEL 750[34]
PEL-C 3000[34]
Skin notification N[34]
Safe Work Australia (Australia, 4/2024)
TWA : 250 ppm 8 hours. [14]
TWA : 594 mg/m³ 8 hours. [14]
STEL : 500 ppm 15 minutes. [14]
STEL : 1187 mg/m³ 15 minutes. [14]

Methanol
OSHA
PEL-TWA 200[35]
Skin notification N[35]
NIOSH
REL-TWA 200[35]
REL-STEL 250[35]
Skin notification Y[35]
ACGIH
TLV-TWA 200[35]
TLV-STEL 250[35]
Skin notification Y[35]
CAL/OSHA
PEL-TWA 200[35]
PEL-STEL 250[35]
PEL-C 1000[35]
Skin notification Y[35]
Safe Work Australia (Australia, 4/2024)
TWA : 100 ppm 8 hours. [15]
TWA : 130 mg/m³ 8 hours. [15]

Toluene
OSHA
PEL-TWA 200 ppm[36]
PEL-C 300 ppm; 500 ppm (Peak) [10 min maximum in an 8 hr shift][36]
Skin notification N[36]
NIOSH
REL-TWA 100 ppm (375 mg/m³)[36]
REL-STEL 150 ppm (560 mg/m³)[36]
Skin notification N[36]
ACGIH
TLV-TWA 20 ppm [2006][36]

	TLV-TWA 20 ppm [2008]
	Skin notification N[36]
	CAL/OSHA
	PEL-TWA 10 ppm (37 mg/m³)[36]
	PEL-STEL 150 ppm (560 mg/m³)[36]
	PEL-C 500 ppm[36]
	Skin notification Y[36]
	Safe Work Australia (Australia, 4/2024)
	TWA : 20 ppm 8 hours. [37]
	TWA : 75 mg/m³ 8 hours. [37]
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	56.0 °C (132.9 °F) (Acetone)
Flash point	-20.0 °C (-4.0 °F) (Acetone)
Flammability	Flammable
Lower and upper explosion limit/flammability limit	Not available
Vapour pressure	240 hPa at 20 °C (Acetone)
Density and/or relative density	0.84 - 0.86 g/cm³
Relative vapour density	Not available
Solubility	Soluble in Organic solvent
Partition coefficient n-octanol/water (log value)	Not applicable
Auto-ignition temperature	465.0 °C (869.0 °F) (Acetone)
Decomposition temperature	Not applicable
Viscosity	Not available
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 = 2593.64 mg/kg (Category 5)
	2-BUTOXYETHANOL LD50 (rat) oral = 470.00 mg/kg[16]
	2-PROPANOL LD50 (rat) oral = 4710.00 mg/kg[17]
	Acetone LD50 (rat) oral = 5800.00 mg/kg[18]

	Methanol LD50 (rat) oral = 1187.00 mg/kg[19] Toluene LD50 (rat) oral = 5000.00 mg/kg[20]
Acute toxicity (dermal)	ATEmix = 6008.90 mg/kg (Not classified) 2-BUTOXYETHANOL LD50 (rabbit) dermal = 400.00 mg/kg[16] 2-PROPANOL LD50 (rabbit) dermal = 12870.00 mg/kg[17] Acetone LD50 (rabbit) dermal = 7426.00 mg/kg[18] Toluene LD50 (rabbit) dermal = 14100.00 mg/kg[20]
Acute toxicity (inhalation)	Not available
Skin corrosion and skin irritation	Causes skin irritation (2-BUTOXYETHANOL,Toluene)
Serious eye damage or eye irritation	Causes serious eye irritation (2-BUTOXYETHANOL,2-PROPANOL,Acetone)
Respirator and skin sensitzation	Not classified
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	Causes damage to organs (2-PROPANOL,Acetone,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	Toxic to aquatic life 2-BUTOXYETHANOL LC50 (fish) 96 hr = 1474 mg/L[25] EC48 (shrimp) 48 hr = 1500 mg/L[25] 2-PROPANOL LC50 (fish) 96 hr = 6120 mg/L[17] Acetone LC50 (fish) 96 hr = 4740 mg/L[18] Methanol LC50 (fish) 96 hr = 15400 mg/L[19] EC48 (shrimp) 48 hr = 18260 mg/L[19] ErC-EC72 (Fungi) 96 hr = 2200 mg/L[19] Toluene LC50 (fish) 96 hr = 7.3 mg/L[26] EC48 (shrimp) 48 hr = 6 mg/L[26] ErC-EC72 (Fungi) 96 hr = 12.5 mg/L[26]
Long term aquatic hazard	No information
Persistance and degradability	Rapidly degradable (Acetone,Methanol,Toluene)
Bioaccumulative potential	Bioaccumulative potential 2-BUTOXYETHANOL log KOW = 0.83[28] BCF = 3[28] Acetone log KOW = -0.24[29] BCF = 0.69[29] Methanol log KOW = -0.77[30] BCF = 10[30] Toluene log KOW = 2.73[31] BCF = 13[31]
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: 05 June 2025

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