

1. IDENTIFICATION OF THE MIXTURE AND OF THE SUPPLIER

Product Identifier

Product	Thinner 2K (Fast Dry) [86-116]
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
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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 1
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: 0.00%

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

Percentage of mixture consisting of ingredient(s) of unknown inhalation toxicity: 34.00%

GHS label elements

Pictogram or symbol



Signal word

Danger

Hazard statement:

- H225 Highly Flammable liquid and vapour
- H303 May be harmful if swallowed
- H310 Fatal in contact with skin
- 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 no 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.
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.
P322 Specific measures (see on this label).
P337+P313 IF eye irritation persists Get medical advice / attention.
P361 Remove / Take off immediately all contaminated clothing.
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-ACETOXY-2-ETHOXYETHANE	111-15-9	32.30 - 37.40
Acetone	67-64-1	25.96 - 30.06
Butyl Acetate	123-86-4	36.74 - 42.54

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,	Keep unnecessary personnel away. Prevent further leakage or spillage if safe to do so. Use personal
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and emergency procedures	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 100 ⁹ Skin notification Y ⁹ NIOSH REL-TWA 0.5 ⁹ Skin notification Y ⁹ ACGIH TLV-TWA 5 ⁹ Skin notification Y ⁹ CAL/OSHA PEL-TWA 5 ⁹ Skin notification Y ⁹ Safe Work Australia (Australia, 4/2024) TWA : 2 ppm 8 hours. ¹² TWA : 10.9 mg/m ³ 8 hours. ¹² <u>Acetone</u> OSHA PEL-TWA 1000 ¹⁰ Skin notification N ¹⁰ NIOSH REL-TWA 250 ¹⁰ Skin notification N ¹⁰ ACGIH TLV-TWA 2500 ¹⁰ TLV-STEL 500 ¹⁰ Skin notification N ¹⁰ CAL/OSHA PEL-TWA 500 ¹⁰ PEL-STEL 750 ¹⁰ PEL-C 3000 ¹⁰ Skin notification N ¹⁰ Safe Work Australia (Australia, 4/2024) TWA : 250 ppm 8 hours. ¹² TWA : 594 mg/m ³ 8 hours. ¹² STEL : 500 ppm 15 minutes. ¹² STEL : 1187 mg/m ³ 15 minutes. ¹² <u>Butyl Acetate</u> OSHA PEL-TWA 150 ¹¹ Skin notification N ¹¹ NIOSH
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REL-TWA 150¹¹
REL-STEL 200¹¹
Skin notification N¹¹
ACGIH
TLV-TWA 50¹¹
TLV-STEL 150¹¹
Skin notification N
CAL/OSHA
PEL-TWA 150¹¹
PEL-STEL 200¹¹
Skin notification N¹¹
Safe Work Australia (Australia, 4/2024)
TWA : 50 ppm 8 hours. ¹²
TWA : 270 mg/m³ 8 hours. ¹²
STEL : 100 ppm 15 minutes. ¹²
STEL : 541 mg/m³ 15 minutes. ¹²

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	0.83 - 0.93 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	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 = 4990.49 mg/kg (Category 5) 1-ACETOXY-2-ETHOXYETHANE LD50 (rat) oral = 2900.00 mg/kg ¹ Acetone LD50 (rat) oral = 5800.00 mg/kg ² Butyl Acetate LD50 (rat) oral = 10736.00 mg/kg ³
Acute toxicity (dermal)	ATEmix = 41.26 mg/kg (Category 1) 1-ACETOXY-2-ETHOXYETHANE LD50 (rabbit) dermal = 10300.00 mg/kg ¹ Acetone LD50 (rabbit) dermal = 7426.00 mg/kg ² Butyl Acetate LD50 (rabbit) dermal = 16.00 mg/kg ³
Acute toxicity (inhalation)	Not available
Skin corrosion and skin irritation	Not classified
Serious eye damage or eye irritation	Causes serious eye irritation (Acetone)
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 (Acetone, Butyl Acetate)
Specific target organ toxicity following repeated exposure	Not classified
Aspiration hazard	Not classified

12. ECOLOGICAL INFORMATION

Acute aquatic hazard	Harmful to aquatic life <u>1-ACETOXY-2-ETHOXYETHANE</u> LC50 (fish) 96 hr = 40 mg/L ⁵ <u>Acetone</u> LC50 (fish) 96 hr = 4740 mg/L ² <u>Butyl Acetate</u> LC50 (fish) 96 hr = 18 mg/L ³ EC48 (shrimp) 48 hr = 32 mg/L ³
Long term aquatic hazard	No information
Persistence and degradability	Rapidly degradable (Acetone, Butyl Acetate)
Bioaccumulative potential	Bioaccumulative potential <u>1-ACETOXY-2-ETHOXYETHANE</u> log KOW = 0.24 ⁶ BCF = 3 ⁶ <u>Acetone</u> log KOW = -0.24 ⁷ BCF = 0.69 ⁷ <u>Butyl Acetate</u> log KOW = 1.78 ⁸ BCF = 7.00 ⁸
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.
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Container disposal waste collector in your country
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

- <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~m8awRK:3> (3-5-19)
- <https://echa.europa.eu/brief-profile/-/briefprofile/100.000.602> (23-12-19)
- <https://echa.europa.eu/brief-profile/-/briefprofile/100.004.236#ScientificProperties> (17-12-19)
- <https://echa.europa.eu/brief-profile/-/briefprofile/100.004.236> (04-05-19)
- <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~7TG1XJ:1> (03-05-19)
- <https://pubchem.ncbi.nlm.nih.gov/compound/8095#section=Environmental-Fate-Exposure-Summary> (03-05-19)
- <https://pubchem.ncbi.nlm.nih.gov/compound/180> (23-12-19)
- <https://pubchem.ncbi.nlm.nih.gov/compound/31272#section=Environmental-Abiotic-Degradation> (04-05-19)
- <https://www.osha.gov/chemicaldata/chemResult.html?recNo=122> (3-5-19)
- <https://www.osha.gov/chemicaldata/chemResult.html?recNo=476> (23-12-19)
- <https://www.osha.gov/chemicaldata/chemResult.html?recNo=178> (17-12-19)
- Safe Work Australia Workplace exposure limits for airborne contaminants April 2024 (20-8-2024)