

## 1. IDENTIFICATION OF THE MIXTURE AND OF THE SUPPLIER

### Product Identifier

|                             |                                           |
|-----------------------------|-------------------------------------------|
| Product                     | - [47-8051]                               |
| 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 1 |
| Acute toxicity - oral                                      | Category 5 |
| Acute toxicity - dermal                                    | Category 1 |
| Skin corrosion/irritation                                  | Category 2 |
| Specific target organ toxicity<br>(single exposure)        | Category 3 |
| Aspiration hazard                                          | Category 1 |
| Hazardous to the aquatic environment -<br>acute hazard     | Category 2 |
| Hazardous to the aquatic environment -<br>long-term hazard | Category 3 |

Remark:

Percentage of mixture consisting of ingredient(s) of unknown oral toxicity: 78.85%

Percentage of mixture consisting of ingredient(s) of unknown dermal toxicity: 91.55%

Percentage of mixture consisting of ingredient(s) of unknown inhalation toxicity: 47.90%

### 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

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

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.
- 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.
- 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).
- P331 Do NOT induce vomiting.
- P332+P313 IF skin irritation occurs 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) |
|--------------------|------------|-----------------|
| Acrylic Polymer    | -          | 35.52 - 41.12   |
| Butyl Acetate      | 123-86-4   | 5.32 - 6.15     |
| Dimethyl glutarate | 1119-40-0  | 2.71 - 3.13     |
| Ethyl Benzene      | 100-41-4   | 9.57 - 11.08    |
| Solvent naphtha    | 64742-95-6 | 1.21 - 1.40     |
| Xylene             | 1330-20-7  | 40.69 - 47.11   |

**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. Vomitting. Weakness. Unconsciousness. Skin and eye redness. Pain. Nausea. Vomitting. |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|

**5. FIRE FIGHTING MEASURES**

|                                                                |                                                                                                                                                                                |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                                   | Dry chemical. Carbon Dioxide (CO <sub>2</sub> ). 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>Butyl Acetate</u><br>OSHA<br>PEL-TWA 150 <sup>14</sup><br>Skin notification N <sup>14</sup><br>NIOSH<br>REL-TWA 150 <sup>14</sup><br>REL-STEL 200 <sup>14</sup><br>Skin notification N <sup>14</sup><br>ACGIH<br>TLV-TWA 50 <sup>14</sup><br>TLV-STEL 150 <sup>14</sup><br>Skin notification N<br>CAL/OSHA<br>PEL-TWA 150 <sup>14</sup><br>PEL-STEL 200 <sup>14</sup><br>Skin notification N <sup>14</sup><br>Safe Work Australia (Australia, 4/2024)<br>TWA : 50 ppm 8 hours. <sup>17</sup><br>TWA : 270 mg/m <sup>3</sup> 8 hours. <sup>17</sup><br>STEL : 100 ppm 15 minutes. <sup>17</sup><br>STEL : 541 mg/m <sup>3</sup> 15 minutes. <sup>17</sup><br><u>Ethyl Benzene</u><br>OSHA<br>PEL-TWA 100 <sup>15</sup><br>Skin notification N <sup>15</sup><br>NIOSH<br>REL-TWA 100 <sup>15</sup><br>REL-STEL 125 <sup>15</sup><br>Skin notification N <sup>15</sup><br>ACGIH |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

ILV-IWA 20<sup>13</sup>  
 Skin notification N<sup>15</sup>  
 CAL/OSHA  
 PEL-TWA 100<sup>15</sup>  
 PEL-STEL 125<sup>15</sup>  
 Skin notification N<sup>15</sup>  
 Safe Work Australia (Australia, 4/2024)  
 TWA : 20 ppm 8 hours. <sup>17</sup>  
 TWA : 87 mg/m<sup>3</sup> 8 hours. <sup>17</sup>  
 Safe Work Australia (Australia, 4/2024)  
 TWA : 50 ppm 8 hours. <sup>18</sup>  
 TWA : 296 mg/m<sup>3</sup> 8 hours. <sup>18</sup>  
 STEL : 100 ppm 15 minutes. <sup>18</sup>  
 STEL : 593 mg/m<sup>3</sup> 15 minutes. <sup>18</sup>  
Xylene  
 OSHA  
 PEL-TWA 100<sup>16</sup>  
 Skin notification N<sup>16</sup>  
 NIOSH  
 REL-TWA 100<sup>16</sup>  
 Skin notification N<sup>16</sup>  
 ACGIH  
 TLV-TWA 100<sup>16</sup>  
 TLV-STEL 150<sup>16</sup>  
 Skin notification N<sup>16</sup>  
 CAL/OSHA  
 PEL-TWA 100<sup>16</sup>  
 PEL-STEL 150<sup>16</sup>  
 PEL-C 300<sup>16</sup>  
 Skin notification N<sup>16</sup>  
 Safe Work Australia (Australia, 4/2024)  
 TWA : 80 ppm 8 hours. <sup>19</sup>  
 TWA : 350 mg/m<sup>3</sup> 8 hours. <sup>19</sup>  
 STEL : 150 ppm 15 minutes. <sup>19</sup>  
 STEL : 655 mg/m<sup>3</sup> 15 minutes. <sup>19</sup>

Appropriate engineering controls

## Personal protective equipment

Respiratory protection

Hand protection

Eye protection

Skin and body protection

Provide adequate ventilation. Install local exhaust.

Organic vapor respirator

Rubber gloves. Neoprene.

Safety goggle.

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 | -20.0 °C (-4.0 °F) (Solvent naphtha)  |
| Flash point                                              | -40.0 °C (-40.0 °F) (Solvent naphtha) |
| Flammability                                             | Flammable                             |
| Lower and upper explosion limit/flammability             | Not available                         |

|                                                   |                                       |
|---------------------------------------------------|---------------------------------------|
| limit                                             |                                       |
| Vapour pressure                                   | 16 hPa at 20 °C (Butyl Acetate)       |
| Density and/or relative density                   | 0.88 - 0.98 g/cm <sup>3</sup>         |
| Relative vapour density                           | Not available                         |
| Solubility                                        | Soluble in Organic solvent            |
| Partition coefficient n-octanol/water (log value) | Not applicable                        |
| Auto-ignition temperature                         | 280.0 °C (536.0 °F) (Solvent naphtha) |
| Decomposition temperature                         | Not applicable                        |
| Viscosity                                         | 15 - 17 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 = 4685.77 mg/kg (Category 5)<br>Butyl Acetate LD50 (rat) oral = 10736.00 mg/kg <sup>1</sup><br>Dimethyl glutarate LD50 (rat) oral = 5000.00 mg/kg <sup>2</sup><br>Ethyl Benzene LD50 (rat) oral = 3500.00 mg/kg <sup>3</sup><br>Solvent naphtha LD50 (rat) oral = 5000.00 mg/kg <sup>4</sup> |
| Acute toxicity (dermal)                                    | ATEmix = 19.60 mg/kg (Category 1)<br>Butyl Acetate LD50 (rabbit) dermal = 16.00 mg/kg <sup>1</sup><br>Solvent naphtha LD50 (rabbit) dermal = 2000.00 mg/kg <sup>4</sup>                                                                                                                             |
| Acute toxicity (inhalation)                                | Not available                                                                                                                                                                                                                                                                                       |
| Skin corrosion and skin irritation                         | Causes skin irritation (Xylene)                                                                                                                                                                                                                                                                     |
| Serious eye damage or eye irritation                       | Not classified                                                                                                                                                                                                                                                                                      |
| 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 (Butyl Acetate)                                                                                                                                                                                                                                                    |
| Specific target organ toxicity following repeated exposure | Not classified                                                                                                                                                                                                                                                                                      |
| Aspiration hazard                                          | May be fatal if swallowed and enters airways (Ethyl Benzene, Solvent naphtha)                                                                                                                                                                                                                       |

## 12. ECOLOGICAL INFORMATION

|                      |                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute aquatic hazard | Toxic to aquatic life<br><u>Butyl Acetate</u><br>LC50 (fish) 96 hr = 18 mg/L <sup>1</sup><br>EC48 (shrimp) 48 hr = 32 mg/L <sup>1</sup><br><u>Ethyl Benzene</u><br>LC50 (fish) 96 hr = 4.20 mg/L <sup>10</sup><br>EC48 (shrimp) 48 hr = 2.10 mg/L <sup>9</sup><br>ErC-EC72 (Fungi) 96 hr = 4.60 mg/L <sup>9</sup><br><u>Xylene</u><br>LC50 (fish) 96 hr = 3.30 mg/L <sup>5</sup> |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Long term aquatic hazard

LC50 (fish) 96 hr = 3.30 mg/L

Harmful to aquatic life with long lasting effects

Butyl Acetate

NOEC fish = 23 mg/L<sup>1</sup>

NOEC shrimp = 23 mg/L<sup>1</sup>

NOEC fungi = 196 mg/L<sup>1</sup>

Ethyl Benzene

NOEC fish = 3.30 mg/L<sup>9</sup>

NOEC shrimp = 1 mg/L<sup>9</sup>

NOEC fungi = 3.4 mg/L<sup>9</sup>

Xylene

NOEC fish = 1.30 mg/L<sup>11</sup>

NOEC shrimp = 1.57 mg/L<sup>6</sup>

NOEC fungi = 0.44 mg/L<sup>6</sup>

Persistence and degradability

Rapidly degradable (Butyl Acetate,Dimethyl glutarate,Ethyl Benzene,Xylene)

Bioaccumulative potential

Bioaccumulative potential

Butyl Acetate

log KOW = 1.78<sup>12</sup>

BCF = 7.00<sup>12</sup>

Ethyl Benzene

log KOW = 3.03<sup>9</sup>

BCF = 110<sup>9</sup>

Xylene

log KOW = 3.20<sup>13</sup>

BCF = 14.80<sup>13</sup>

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: 24 June 2025

## References

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3. <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~0KYTYa:3> (03-05-19)
4. <https://echa.europa.eu/brief-profile/-/briefprofile/100.059.254> (24-12-19)
5. <https://www.epa.govt.nz/database-search/chemical-classification-and-information-database-ccid/view/682> (04-05-19)
6. <https://echa.europa.eu/brief-profile/-/briefprofile/100.014.124> (24-12-19)
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14. <https://www.osha.gov/chemicaldata/chemResult.html?recNo=178> (17-12-19)
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17. Safe Work Australia Workplace exposure limits for airborne contaminants April 2024 (20-8-2024)
18. Safe Work Australia Workplace exposure limits for airborne contaminants April 2024 (20-8-24)
19. Safe Work Australia Workplace exposure limits for airborne contaminants April 2024 (21-8-2024)