

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

#### **Product Identifier**

Product 2K 4:1 BBP NEWGEN [441-8160]

Recommended use of chemical Use as coating

Restriction on use No open flames, No sparks, and No smoking

Supplier's details

Big-Ben Chemical Company Limited Company

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#### 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 Category 3

(single exposure)

Aspiration hazard Category 1 Hazardous to the aquatic environment -Category 2

acute hazard

Hazardous to the aquatic environment -Category 3

long-term hazard

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 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]

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 occursGet 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 containinated 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.

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.

Ingestion



delayed

Most important symptoms/effects, acute and 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 **Butyl Acetate** OSHA

PEL-TWA 150<sup>14</sup>

Skin notification N<sup>14</sup>

NIOSH

**REL-TWA 150<sup>14</sup>** 

REL-STEL 200<sup>14</sup>

Skin notification N<sup>14</sup>

**ACGIH** 

TLV-TWA 50<sup>14</sup>

TLV-STEL 150<sup>14</sup>

Skin notification N

CAL/OSHA

PEL-TWA 150<sup>14</sup>

PEL-STEL 200<sup>14</sup>

Skin notification N<sup>14</sup>

Safe Work Australia (Australia, 4/2024)

TWA: 50 ppm 8 hours. 17

TWA: 270 mg/m<sup>3</sup> 8 hours. 17

STEL: 100 ppm 15 minutes. 17

STEL: 541 mg/m<sup>3</sup> 15 minutes. <sup>17</sup>

Ethyl Benzene

OSHA

PEL-TWA 100<sup>15</sup>

Skin notification N<sup>15</sup>

NIOSH

**REL-TWA 100<sup>15</sup>** 

REL-STEL 12515

Skin notification N<sup>15</sup>

**ACGIH** 

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ILV-IWA 2013

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>

<u>Xylene</u> 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>
Chin patification N

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 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

-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)

0.88 - 0.98 g/cm3 Density and/or relative density 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

14 - 18 second at 30 °C Viscosity

Particle characteristics Not applicable

10. STABILITY AND REACTIVITY

Reactivity Reacts violently with strong acids and strong oxidants Stable under normal storage and handling conditions Chemical stability

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)

> Butyl Acetate LD50 (rat) oral = 10736.00 mg/kg<sup>1</sup> Dimethyl glutarate LD50 (rat) oral = 5000.00 mg/kg<sup>2</sup> Ethyl Benzene LD50 (rat) oral = 3500.00 mg/kg<sup>3</sup>

Solvent naphtha LD50 (rat) oral = 5000.00 mg/kg4

Acute toxicity (dermal) ATEmix = 19.60 mg/kg (Category 1)

> Butyl Acetate LD50 (rabbit) dermal = 16.00 mg/kg<sup>1</sup> Solvent naphtha LD50 (rabbit) dermal = 2000.00 mg/kg4

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 sensitzation Not classified Skin sentization Not classified Germ cell mutagenicity Not classified Not classified Carcinogenicity Reproductive toxicity Not classified

Specific target organ toxicity following single

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

Butyl Acetate LC50 (fish) 96 hr = 18 mg/L<sup>1</sup> EC48 (shrimp) 48 hr =  $32 \text{ mg/L}^1$ 

Ethyl Benzene LC50 (fish) 96 hr =  $4.20 \text{ mg/L}^{10}$ EC48 (shrimp) 48 hr =  $2.10 \text{ mg/L}^9$ ErC-EC72 (Fungi) 96 hr =  $4.60 \text{ mg/L}^9$ 

<u>Xylene</u> I C50 (fich) 96 hr - 3 30 mg/l <sup>5</sup>



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Long term aquatic hazard Harmful to aquatic life with long lasting effects

NOEC fish =  $23 \text{ mg/L}^1$ NOEC shrimp =  $23 \text{ mg/L}^1$ NOEC fungi = 196 mg/L<sup>1</sup>

**Ethyl Benzene** 

NOEC fish =  $3.30 \text{ mg/L}^9$ NOEC shrimp =  $1 \text{ mg/L}^9$ NOEC fungi =  $3.4 \text{ mg/L}^9$ 

Xylene NOEC fish = 1.30 mg/L<sup>11</sup> NOEC shrimp =  $1.57 \text{ mg/L}^6$ NOEC fungi =  $0.44 \text{ mg/L}^6$ 

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

Bioaccumulative potential Bioaccumulative potential

> **Butyl Acetate**  $\log KOW = 1.78^{12}$  $BCF = 7.00^{12}$ Ethyl Benzene log KOW = 3.03<sup>9</sup>  $BCF = 110^{9}$

 $\frac{\text{Xylene}}{\text{log KOW}} = 3.20^{13}$  $BCF = 14.80^{13}$ 

Mobility in soil The product is insoluable in water. If released to water, some of the components will have tendency

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

Disposing of this material/container should be done under all the regulations or handled by Disposal methods

authorized

waste collector in your country Do not re-use empty containers

# 14. TRANSPORT INFORMATION

Labels required

Container disposal



UN number 1263 UN proper shipping name Paint Transport hazard class(es) 3 Packing group Ш

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)

Toxic substance control act (TSCA)

All component in this product are listed

All component in this product are listed

#### 16. OTHER INFORMATION

Issue date: 28 June 2025

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#### **SAFETY DATA SHEET**

#### kererences

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- 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)
- 15. https://www.osha.gov/chemicaldata/chemResult.html?recNo=13 (25-12-19)
- 16. https://www.osha.gov/chemicaldata/chemResult.html?recNo=228 (04-05-19)
- 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)