

1. IDENTIFICATION OF THE MIXTURE AND OF THE SUPPLIER

Product Identifier

Product Acrylic Primer Grey [81-0222]

Recommended use of chemical Use as primer

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

Supplier's details

Company Big-Ben Chemical Company Limited

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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 2 Acute toxicity - oral Category 5 Acute toxicity - dermal Category 3 Skin corrosion/irritation Category 2 Eye damage/irritation Category 2A Sentization - respiratory Category 1 Toxic to reproduction Category 2 Specific target organ toxicity Category 3

(single exposure)

Specific target organ toxicity Category 2

(repeated exposure)

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

acute hazard

Hazardous to the aquatic environment - Category 2

long-term hazard

Remark:

Percentage of mixture consisting of ingredient(s) of unknown oral toxicity: 44.08% Percentage of mixture consisting of ingredient(s) of unknown dermal toxicity: 67.12% Percentage of mixture consisting of ingredient(s) of unknown inhalation toxicity: 76.07%

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

H311 Toxic in contact with skin

H315 Causes skin irritation

H319 Causes serious eye irritation

4224 May cause alloray or arthma symptoms or breathing difficulties if inhaled



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H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

H361 Suspected of damaging fertility or the unborn child

H373 May cause damage to organs through prolonged or repeated exposure

H401 Toxic to aquatic life

H411 Toxic to aquatic life with long lasting effects

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.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

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.

P285 In case of inadequate ventilation wear respiratory 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.

P304+P340 IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P304+P341 IF INHALED If breathing is difficult, 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.

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).

P322 Specific measures (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.

P342+P311 IF experiencing respiratory symptoms Call a POISON CENTER or doctor / physician.

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.

P391 Collect spillage.

[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-Butanol	71-36-3	13.50 - 15.63
1-benzyl 2-butyl benzene-1,2-dicarboxylate	85-68-7	3.13 - 3.63
Acrylic resin	-	17.21 - 19.93
Butyl Acetate	123-86-4	2.10 - 2.43
Magnesium Dioxide	1309-48-4	9.43 - 10.92
Silicon Dioxide	7631-86-9	19.17 - 22.19
Titanium Dioxide	13463-67-7	9.64 - 11.16
Toluene	108-88-3	14.72 - 17.05
Xylene	1330-20-7	6.10 - 7.06
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.	
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. Vomitting.	
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,	Keep unnecessary personnel away. Prevent fu	rther leakage or spillage if safe to do so. Use personal
and emergency procedures	protective equipment. Use only non-sparkling tools.	
Environmental precautions	Prevent the material from entering drains or water courses.	
Methods and materials for containment and	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth,	
cleaning up	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.	

incompatibilites containers. Store away from oxidizing agent. 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Conditions for safe storage, including any

Control parameters <u>1-Butanol</u>

OSHA

PEL-TWA 100 ppm $(300 \text{ mg/m}^3)^{20}$

Keep away from heat or flames. Keep in cool, dry, ventilated storage and in closed

Skin notification N^{20}

NIOSH

REL-C 50 ppm (150 mg/m³)²⁰

Skin notification Y^{20}

ACGIH

TLV-TWA 20 ppm [1998]²⁰



Skin notification N²⁰

CAL/OSHA

PEL-C 50 ppm (150 mg/m³)²⁰

Skin notification Y²⁰

Safe Work Australia (Australia, 4/2024)

TWA: 20 ppm 8 hours. ²⁵ TWA: 61 mg/m³ 8 hours. ²⁵

Butyl Acetate

OSHA

PEL-TWA 150²¹

Skin notification N²¹

NIOSH

REL-TWA 150²¹

REL-STEL 200²¹

Skin notification N²¹

ACGIH

TLV-TWA 50²¹

TLV-STEL 150²¹

Skin notification N

CAL/OSHA

PEL-TWA 150²¹

PEL-STEL 200²¹

Skin notification N²¹

Safe Work Australia (Australia, 4/2024)

TWA: 50 ppm 8 hours. 25

TWA: 270 mg/m³ 8 hours. ²⁵

STEL: 100 ppm 15 minutes. ²⁵

STEL: 541 mg/m³ 15 minutes. ²⁵

Safe Work Australia (Australia, 4/2024)

TWA: 10 mg/m³ 8 hours. ²⁵

Safe Work Australia (Australia, 4/2024)

TWA: 2 mg/m 3 8 hours. 27

Titanium Dioxide

OSHA

PEL-TWA 15²²

Skin notification N²²

NIOSH

Skin notification N²²

ACGIH

TLV-TWA 10²²

Skin notification N²²

CAL/OSHA

PEL-TWA 10²²

Skin notification N²²

Safe Work Australia (Australia, 4/2024)

TWA: 10 mg/m³ 8 hours. ²⁶

<u>Toluene</u>

OSHA

PEL-TWA 200 ppm²³

PEL-C 300 ppm; 500 ppm (Peak) [10 min maximum in an 8 hr shift]²³

Skin notification N²³

NIOSH

REL-TWA 100 ppm (375 mg/m³)²³

REL-STEL 150 ppm (560 mg/m³)²³

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ACGIH

TLV-TWA 20 ppm [2006]²³ Skin notification N²³

CAL/OSHA

PEL-TWA 10 ppm (37 mg/m³)²³ PEL-STEL 150 ppm (560 mg/m³)²³

PEL-C 500 ppm²³ Skin notification Y²³

Safe Work Australia (Australia, 4/2024)

TWA: 20 ppm 8 hours. ²⁶ TWA: 75 mg/m³ 8 hours. ²⁶

<u>Xylene</u> OSHA

PEL-TWA 100²⁴ Skin notification N²⁴

NIOSH

REL-TWA 100²⁴ Skin notification N²⁴

ACGIH

TLV-TWA 100²⁴
TLV-STEL 150²⁴
Skin notification N²⁴

CAL/OSHA
PEL-TWA 100²⁴
PEL-STEL 150²⁴
PEL-C 300²⁴
Skin notification N²⁴

Safe Work Australia (Australia, 4/2024)

TWA: 80 ppm 8 hours. ²⁶
TWA: 350 mg/m³ 8 hours. ²⁶
STEL: 150 ppm 15 minutes. ²⁶
STEL: 655 mg/m³ 15 minutes. ²⁶

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 High Viscosity liquid

Colour Grey

Odour Organic solvent
pH Not available
Melting point/freezing point Not Available

Boiling point or initial boiling point and 110.6 °C (231.1 °F) (Toluene)

boiling range Flash point

4.4 °C (39.9 °F) (Toluene)

Flammability Flammable
Lower and upper explosion limit/flammability Not available

limit

Vapour pressure 16 hPa at 20 °C (Butyl Acetate)



1.25 - 1.35 g/cm³ Density and/or relative density Not available Relative vapour density

Solubility Soluble in Organic solvent

Partition coefficient n-octanol/water (log

value)

Not applicable

Auto-ignition temperature 480.0 °C (896.0 °F) (Toluene)

Decomposition temperature Not applicable 100 - 110 KU at 30 °C Viscosity

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 = 2103.19 mg/kg (Category 5)

1-Butanol LD50 (rat) oral = 790.00 mg/kg1

1-benzyl 2-butyl benzene-1,2-dicarboxylate LD50 (rat) oral = 2330.00 mg/kg²

Butyl Acetate LD50 (rat) oral = 10736.00 mg/kg³ Magnesium Dioxide LD50 (rat) oral = 3870.00 mg/kg Titanium Dioxide LD50 (rat) oral = 10000.00 mg/kg⁴

Toluene LD50 (rat) oral = 5000.00 mg/kg⁵

Acute toxicity (dermal) ATEmix = 222.47 mg/kg (Category 3)

> 1-Butanol LD50 (rabbit) dermal = 3400.00 mg/kg¹ Butyl Acetate LD50 (rabbit) dermal = 16.00 mg/kg³ Toluene LD50 (rabbit) dermal = 14100.00 mg/kg⁵

Acute toxicity (inhalation) Not available

Causes skin irritation (Toluene, Xylene) Skin corrosion and skin irritation Serious eye damage or eye irritation Causes serious eye irritation (1-Butanol)

Respirator and skin sensitzation May cause allergy or asthma symptoms or breathing difficulties if inhaled (1-Butanol)

Skin sentization Not classified Not classified Germ cell mutagenicity Not classified Carcinogenicity

Reproductive toxicity Suspected of damaging fertility or the unborn child (Toluene)

Specific target organ toxicity following single

exposure

May cause respiratory irritation (1-Butanol, Butyl Acetate, Toluene)

Specific target organ toxicity following May cause damage to organs through prolonged or repeated exposure (Toluene)

repeated exposure

Aspiration hazard May be fatal if swallowed and enters airways (Toluene)

12. ECOLOGICAL INFORMATION

Acute aquatic hazard Toxic to aquatic life

LC50 (fish) 96 hr = 100 mg/L^1 EC48 (shrimp) 48 hr = 1983 mg/L^1

1-benzyl 2-butyl benzene-1,2-dicarboxylate LC50 (fish) 96 hr = 0.510 mg/L¹¹

EC48 (shrimp) 48 hr = 0.740 mg/L^{11}

<u>Butyl Acetate</u> LC50 (fish) 96 hr = 18 ma/L³

EC48 (shrimp) $48 \text{ hr} = 32 \text{ mg/L}^3$

Titanium Dioxide

EC48 (shrimp) 48 hr = 100 mg/L^4 ErC-EC72 (Fungi) 96 hr = 35.9 mg/L⁴

LC50 (fish) 96 hr = 7.3 mg/L¹² EC48 (shrimp) 48 hr = 6 mg/L^{12} ErC-EC72 (Fungi) 96 hr = 12.5 mg/L¹²

LC50 (fish) 96 hr = 3.30 mg/L⁶

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

1-Butanol NOEC shrimp = 4.1 mg/L⁹

1-benzyl 2-butyl benzene-1,2-dicarboxylate NOEC fish = 64.6 mg/L¹¹

NOEC shrimp = 0.075 mg/L^{11} NOEC fungi = 0.150 mg/L^{11}

Butyl Acetate

NOEC fish = 23 mg/L^3 NOEC shrimp = 23 mg/L^3 NOEC fungi = 196 mg/L³

<u>Titanium Dioxide</u>

NOEC shrimp = 1.72 mg/L^{15} NOEC fungi = 1 mg/L^{15}

Toluene

NOEC fish = 1.4 mg/L^{13} NOEC shrimp = 7.4 mg/L^{13} NOEC fungi = 10 mg/L^{13}

 $\frac{\text{Xylene}}{\text{NOEC fish}} = 1.30 \text{ mg/L}^{14}$ NOEC shrimp = 1.57 mg/L^8 NOEC fungi = 0.44 mg/L8

Persistance and degradability

Rapidly degradable (Butyl Acetate, Toluene, Xylene)

Bioaccumulative potential Bioaccumulative potential

 $\frac{1-Butanol}{log KOW} = 0.88^{16}$

 $BCF = 3^{16}$

<u> 1-benzyl 2-butyl benzene-1,2-dicarboxylate</u>

log KOW = 4.84 @ 20 °C

Butyl Acetate log KOW = 1.78¹⁷

 $BCF = 7.00^{17}$

<u>Toluene</u>

 $\log \overline{KOW} = 2.73^{18}$

 $BCF = 13^{18}$

log KOW = 3.20¹⁹ $BCF = 14.80^{19}$

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

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 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

Toxic substance control act (TSCA)

Inventory of existing chemical substance

All component in this product are listed

produced or imported in USA (TSCA)

All component in this product are listed

16. OTHER INFORMATION

Issue date: 26 June 2025

References

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- 26. Safe Work Australia Workplace exposure limits for airborne contaminants April 2024 (21-8-2024)
- 27. Safe Work Australia Workplace exposure limits for airborne contaminants April 2024 (20-8-24)



