

1. IDENTIFICATION OF THE MIXTURE AND OF THE SUPPLIER

Product Identifier

Product Acrylic Top Coat Hyper Bronze [56-AL30]

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

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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

Acute toxicity - dermal

Skin corrosion/irritation

Category 2

Eye damage/irritation

Category 2

Category 2

Category 2

Category 2

Category 3

(single exposure)

Hazardous to the aquatic environment - Category 3

acute hazard

Remark:

Percentage of mixture consisting of ingredient(s) of unknown oral toxicity: 45.54%

Percentage of mixture consisting of ingredient(s) of unknown dermal toxicity: 62.05%

Percentage of mixture consisting of ingredient(s) of unknown inhalation toxicity: 2.08%

GHS label elements

Pictogram or symbol







Signal word Danger

Hazard statement:

H225 Highly Flammable liquid and vapour

H310 Fatal in contact with skin

H315 Causes skin irritation

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.

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.

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.

P321 Specific treatment (see on this label).

P322 Specific measures (see on this label).

P332+P313 IF skin irritation occursGet medical advice / attention.

P337+P313 IF eye irritation persistsGet 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)
4-Methyl-2-pentanone	108-10-1	22.53 - 26.09
Acrylic resin	-	1.02 - 1.18
Butyl Acetate	123-86-4	33.63 - 38.95
Cellulose nitrate	9004-70-1	1.04 - 1.20
Dimethyl glutarate	1119-40-0	1.00 - 1.16
Ethyl acetate	141-78-6	15.33 - 17.75
Xylene	1330-20-7	20.45 - 23.68

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4. FIRST AID MEASURES

Inhalation

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

Remove to fresh air. If unconscious, place in recovery position and seek medical attention

Most important symptoms/effects, acute and

delayed redness. Pain. Nausea. Vomitting

5. FIRE FIGHTING MEASURES



Suitable extinguishing media Dry chemical. Carbon Dioxide (CO₂). 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

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

Keep unnecessary personnel away. Prevent further leakage or spillage if safe to do so. Use personal

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 4-Methyl-2-pentanone

PEL-TWA 100²⁷

Skin notification N²⁷

NIOSH

REL-TWA 50²⁷

REL-STEL 75²⁷

Skin notification N²⁷

ACGIH

TLV-TWA 20²⁷

TLV-STEL 75²⁷

Skin notification N27

CAL/OSHA

PEL-TWA 50²⁷

PEL-STEL 75²⁷

Skin notification N²⁷

Safe Work Australia (Australia, 4/2024)

TWA: 20 ppm 8 hours. 30

TWA: 82 mg/m³ 8 hours. 30

STEL: 75 ppm 15 minutes. 30

STEL: 307 mg/m³ 15 minutes. 30

Butyl Acetate

OSHA

PEL-TWA 150¹³

Skin notification N¹³

NIOSH

REL-TWA 150¹³

REL-STEL 20013

Skin notification N¹³

ACGIH

TLV-TWA 5013

TLV-STEL 150¹³

Skin notification N

CAL/USHA

PEL-TWA 150¹³

PEL-STEL 200¹³

Skin notification N¹³

Safe Work Australia (Australia, 4/2024)

TWA: 50 ppm 8 hours. 15 TWA: 270 mg/m³ 8 hours. 15 STEL: 100 ppm 15 minutes. 15 STEL: 541 mg/m³ 15 minutes. ¹⁵

Ethyl acetate OSHA

PEL-TWA 400²⁸

Skin notification N²⁸

NIOSH

REL-TWA 400²⁸

Skin notification N²⁸

ACGIH

TLV-TWA 400²⁸

Skin notification N²⁸

CAL/OSHA

PEL-TWA 400²⁸

Skin notification N²⁸

Safe Work Australia (Australia, 4/2024)

TWA: 200 ppm 8 hours. 15 TWA: 720 mg/m³ 8 hours. 15 STEL: 400 ppm 15 minutes. 15 STEL: 1440 mg/m³ 15 minutes. 15

<u>Xylene</u> OSHA

PEL-TWA 100²⁹

Skin notification N²⁹

NIOSH

REL-TWA 100²⁹

Skin notification N²⁹

ACGIH

TLV-TWA 100²⁹

TLV-STEL 150²⁹

Skin notification N²⁹

CAL/OSHA

PEL-TWA 100²⁹

PEL-STEL 150²⁹

PEL-C 300²⁹

Skin notification N²⁹

Safe Work Australia (Australia, 4/2024)

TWA: 80 ppm 8 hours. 16

TWA: 350 mg/m³ 8 hours. 16 STEL: 150 ppm 15 minutes. 16

STEL: $655 \text{ mg/m}^3 15 \text{ minutes.}$ 16

Provide adequate ventilation. Install local exhaust. Appropriate engineering controls

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 Bronze

Odour Organic solvent

pH Not available

Melting point/freezing point Not Available

Boiling point or initial boiling point and

boiling range

76.8 °C (170.3 °F) (Ethyl acetate)

Flash point -4.2 °C (24.5 °F) (Ethyl acetate)

Flammability Flammable
Lower and upper explosion limit/flammability Not available

limit

Vapour pressure 1403 hPa at 20 °C (Ethyl acetate)

Density and/or relative density 0.85 - 0.95 g/cm³
Relative vapour density Not Available

Solubility Soluble in Organic solvent

Partition coefficient n-octanol/water (log

value)

Not applicable

Auto-ignition temperature 426.0 °C (798.8 °F) (Ethyl acetate)

Decomposition temperature Not applicable

Viscosity Not available second

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 = 10654.79 mg/kg (Not classified)

Butyl Acetate LD50 (rat) oral = 10736.00 mg/kg^2 Dimethyl glutarate LD50 (rat) oral = $5000.00 \text{ mg/kg}^{17}$ Ethyl acetate LD50 (rat) oral = 11.00 mg/kg^{18}

Acute toxicity (dermal) ATEmix = 16.00 mg/kg (Category 1)

Butyl Acetate LD50 (rabbit) dermal = 16.00 mg/kg²

Acute toxicity (inhalation) ATEmix = 47.42 mg/kg (Not classified)

4-Methyl-2-pentanone LC50 (rat) inhalation = 11.60 mg/kg¹⁹

Butyl Acetate LC50 (rat) inhalation = 740.00 mg/kg² Dimethyl glutarate LC50 (rat) inhalation = 11.00 mg/kg¹⁷ Ethyl acetate LC50 (rat) inhalation = 4000.00 mg/kg¹⁸ Xylene LC50 (rat) inhalation = 6360.00 mg/kg²⁰

Skin corrosion and skin irritation Causes skin irritation (Xylene)

Serious eye damage or eye irritation Causes serious eye irritation (4-Methyl-2-pentanone ,Ethyl acetate)

Respirator and skin sensitzation Not classified
Skin sentization Not classified
Germ cell mutagenicity Not classified
Carcinogenicity Not classified
Respondential toxicity Not classified



INUL CIASSIIIEU reproductive toxicity

exposure

Specific target organ toxicity following single May cause respiratory irritation (4-Methyl-2-pentanone ,Butyl Acetate,Ethyl acetate)

Specific target organ toxicity following

repeated exposure

Not classified

Not classified Aspiration hazard

12. ECOLOGICAL INFORMATION

Acute aquatic hazard Harmful to aquatic life

 $\frac{\text{4-Methyl-2-pentanone}}{\text{LC50 (fish) 96 hr}} = 179 \text{ mg/L}^{19}$ EC48 (shrimp) 48 hr = 200 mg/L^{19}

Butyl Acetate LC50 (fish) 96 hr = 18 mg/L^2 EC48 (shrimp) 48 hr = 32 mg/L^2

Ethyl acetate

LC50 (fish) 96 hr = 230 mg/ L^{22}

ErC-EC72 (Fungi) 96 hr = 5600 mg/L²²

<u>Xylene</u> LC50 (fish) 96 hr = 3.30 mg/L^{20}

Long term aquatic hazard No information

Persistance and degradability Rapidly degradable (4-Methyl-2-pentanone ,Butyl Acetate,Dimethyl glutarate,Ethyl acetate,Xylene)

Bioaccumulative potential Bioaccumulative potential

4-Methyl-2-pentanone log KOW = 1.31²⁴

 $BCF = 3^{24}$

Butyl Acetate log KOW = 1.78¹⁰

 $BCF = 7.00^{10}$

Ethyl acetate

 $\log KOW = 0.73^{25}$

 $BCF = 3^{25}$

 $\frac{\text{Xylene}}{\text{log KOW}} = 3.20^{26}$ $BCF = 14.80^{26}$

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

Mobility in soil



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

Environmental hazards Not applicable KI__ _ | : _ _ | _ | _ |



Special precautions inot 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: 26 June 2025

References

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