

1. IDENTIFICATION OF THE MIXTURE AND OF THE SUPPLIER

Product Identifier

Product	Industrial Nitrocellulose Top Coat Red [32-4013]
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 2
Acute toxicity - dermal	Category 1
Skin corrosion/irritation	Category 2
Toxic to reproduction	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration hazard	Category 1
Hazardous to the aquatic environment - acute hazard	Category 2
Hazardous to the aquatic environment - long-term hazard	Category 3

Remark:

Percentage of mixture consisting of ingredient(s) of unknown oral toxicity: 50.48%

Percentage of mixture consisting of ingredient(s) of unknown dermal toxicity: 60.41%

Percentage of mixture consisting of ingredient(s) of unknown inhalation toxicity: 58.89%

GHS label elements

Pictogram or symbol



Signal word

Danger

Hazard statement:

- H225 Highly Flammable liquid and vapour
- 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
- 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
- H412 Harmful 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.
- 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.
- P308+P313 IF exposed or concerned Get medical advice / attention.
- P310 Immediately call a POISON CENTER or doctor / physician.
- 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 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)
1-ACETOXY-2-ETHOXYETHANE	111-15-9	3.88 - 4.49
1-benzyl 2-butyl benzene-1,2-dicarboxylate	85-68-7	1.75 - 2.02
2-PROPANOL	67-63-0	2.56 - 2.96
Acetone	67-64-1	3.39 - 3.93
Butyl Acetate	123-86-4	14.94 - 17.29
Cellulose nitrate	9004-70-1	5.97 - 6.92
Ethyl Benzene	100-41-4	2.87 - 3.32
Ethyl acetate	141-78-6	2.52 - 2.92

Lead chromate molybdate sulfate red	12656-85-8	2.49 - 2.89
Polymer resin	-	28.51 - 33.02
Toluene	108-88-3	11.64 - 13.48
Xylene	1330-20-7	14.47 - 16.76

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, and emergency procedures	Keep unnecessary personnel away. Prevent further leakage or spillage if safe to do so. Use personal 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 ⁴⁷ Skin notification Y ⁴⁷ NIOSH REL-TWA 0.5 ⁴⁷ Skin notification Y ⁴⁷ ACGIH TLV-TWA 5 ⁴⁷ Skin notification Y ⁴⁷ CAL/OSHA PEL-TWA 5 ⁴⁷ Skin notification Y ⁴⁷ Safe Work Australia (Australia, 4/2024) TWA : 2 ppm 8 hours. ¹⁶
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TWA : 10.9 mg/m³ 8 hours. ¹⁶

2-PROPANOL

OSHA

PEL-TWA 400⁴⁹

Skin notification N⁴⁹

NIOSH

REL-TWA 400⁴⁹

REL-STEL 500⁴⁹

Skin notification N⁴⁹

ACGIH

TLV-TWA 200⁴⁹

TLV-STEL 400⁴⁹

Safe Work Australia (Australia, 4/2024)

TWA : 200 ppm 8 hours. ¹⁶

TWA : 491 mg/m³ 8 hours. ¹⁶

STEL : 400 ppm 15 minutes. ¹⁶

STEL : 984 mg/m³ 15 minutes. ¹⁶

Acetone

OSHA

PEL-TWA 1000⁵⁰

Skin notification N⁵⁰

NIOSH

REL-TWA 250⁵⁰

Skin notification N⁵⁰

ACGIH

TLV-TWA 2500⁵⁰

TLV-STEL 500⁵⁰

Skin notification N⁵⁰

CAL/OSHA

PEL-TWA 500⁵⁰

PEL-STEL 750⁵⁰

PEL-C 3000⁵⁰

Skin notification N⁵⁰

Safe Work Australia (Australia, 4/2024)

TWA : 250 ppm 8 hours. ¹⁶

TWA : 594 mg/m³ 8 hours. ¹⁶

STEL : 500 ppm 15 minutes. ¹⁶

STEL : 1187 mg/m³ 15 minutes. ¹⁶

Butyl Acetate

OSHA

PEL-TWA 150⁵¹

Skin notification N⁵¹

NIOSH

REL-TWA 150⁵¹

REL-STEL 200⁵¹

Skin notification N⁵¹

ACGIH

TLV-TWA 50⁵¹

TLV-STEL 150⁵¹

Skin notification N

CAL/OSHA

PEL-TWA 150⁵¹

PEL-STEL 200⁵¹

Skin notification N⁵¹

Safe Work Australia (Australia, 4/2024)

Safe Work Australia (Australia, 4/2024)

TWA : 50 ppm 8 hours. ¹⁶

TWA : 270 mg/m³ 8 hours. ¹⁶

STEL : 100 ppm 15 minutes. ¹⁶

STEL : 541 mg/m³ 15 minutes. ¹⁶

Ethyl Benzene

OSHA

PEL-TWA 100¹⁴

Skin notification N¹⁴

NIOSH

REL-TWA 100¹⁴

REL-STEL 125¹⁴

Skin notification N¹⁴

ACGIH

TLV-TWA 20¹⁴

Skin notification N¹⁴

CAL/OSHA

PEL-TWA 100¹⁴

PEL-STEL 125¹⁴

Skin notification N¹⁴

Safe Work Australia (Australia, 4/2024)

TWA : 20 ppm 8 hours. ¹⁶

TWA : 87 mg/m³ 8 hours. ¹⁶

Ethyl acetate

OSHA

PEL-TWA 400⁵³

Skin notification N⁵³

NIOSH

REL-TWA 400⁵³

Skin notification N⁵³

ACGIH

TLV-TWA 400⁵³

Skin notification N⁵³

CAL/OSHA

PEL-TWA 400⁵³

Skin notification N⁵³

Safe Work Australia (Australia, 4/2024)

TWA : 200 ppm 8 hours. ¹⁶

TWA : 720 mg/m³ 8 hours. ¹⁶

STEL : 400 ppm 15 minutes. ¹⁶

STEL : 1440 mg/m³ 15 minutes. ¹⁶

Toluene

OSHA

PEL-TWA 200 ppm⁵⁴

PEL-C 300 ppm; 500 ppm (Peak) [10 min maximum in an 8 hr shift]⁵⁴

Skin notification N⁵⁴

NIOSH

REL-TWA 100 ppm (375 mg/m³)⁵⁴

REL-STEL 150 ppm (560 mg/m³)⁵⁴

Skin notification N⁵⁴

ACGIH

TLV-TWA 20 ppm [2006]⁵⁴

Skin notification N⁵⁴

CAL/OSHA

PEL-TWA 10 ppm (37 mg/m³)⁵⁴

PEL-STEL 150 ppm (560 mg/m³)⁵⁴
 PEL-C 500 ppm⁵⁴
 Skin notification Y⁵⁴
 Safe Work Australia (Australia, 4/2024)
 TWA : 20 ppm 8 hours. ¹⁸
 TWA : 75 mg/m³ 8 hours. ¹⁸
Xylene
 OSHA
 PEL-TWA 100¹⁵
 Skin notification N¹⁵
 NIOSH
 REL-TWA 100¹⁵
 Skin notification N¹⁵
 ACGIH
 TLV-TWA 100¹⁵
 TLV-STEL 150¹⁵
 Skin notification N¹⁵
 CAL/OSHA
 PEL-TWA 100¹⁵
 PEL-STEL 150¹⁵
 PEL-C 300¹⁵
 Skin notification N¹⁵
 Safe Work Australia (Australia, 4/2024)
 TWA : 80 ppm 8 hours. ¹⁸
 TWA : 350 mg/m³ 8 hours. ¹⁸
 STEL : 150 ppm 15 minutes. ¹⁸
 STEL : 655 mg/m³ 15 minutes. ¹⁸

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	Red
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	1403 hPa at 20 °C (Ethyl acetate)
Density and/or relative density	0.95 - 1.05 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	85 - 95 KU 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 = 5595.88 mg/kg (Not classified) 1-ACETOXY-2-ETHOXYETHANE LD50 (rat) oral = 2900.00 mg/kg ²⁰ 1-benzyl 2-butyl benzene-1,2-dicarboxylate LD50 (rat) oral = 2330.00 mg/kg ⁵⁵ 2-PROPANOL LD50 (rat) oral = 4710.00 mg/kg ²² Acetone LD50 (rat) oral = 5800.00 mg/kg ²³ Butyl Acetate LD50 (rat) oral = 10736.00 mg/kg ²⁴ Ethyl Benzene LD50 (rat) oral = 3500.00 mg/kg ² Ethyl acetate LD50 (rat) oral = 11.00 mg/kg ²⁶ Lead chromate molybdate sulfate red LD50 (rat) oral = 10000.00 mg/kg ⁶⁴ Toluene LD50 (rat) oral = 5000.00 mg/kg ²⁷
Acute toxicity (dermal)	ATEmix = 38.93 mg/kg (Category 1) 1-ACETOXY-2-ETHOXYETHANE LD50 (rabbit) dermal = 10300.00 mg/kg ²⁰ 2-PROPANOL LD50 (rabbit) dermal = 12870.00 mg/kg ²² Acetone LD50 (rabbit) dermal = 7426.00 mg/kg ²³ Butyl Acetate LD50 (rabbit) dermal = 16.00 mg/kg ²⁴ Toluene LD50 (rabbit) dermal = 14100.00 mg/kg ²⁷
Acute toxicity (inhalation)	Not available
Skin corrosion and skin irritation	Causes skin irritation (Toluene,Xylene)
Serious eye damage or eye irritation	Not classified
Respirator and skin sensitization	Not classified
Skin sentization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Suspected of damaging fertility or the unborn child (Toluene)
Specific target organ toxicity following single exposure	May cause respiratory irritation (2-PROPANOL,Acetone,Butyl Acetate,Ethyl acetate,Toluene)
Specific target organ toxicity following repeated exposure	May cause damage to organs through prolonged or repeated exposure (Ethyl Benzene,Toluene)
Aspiration hazard	May be fatal if swallowed and enters airways (Ethyl Benzene,Toluene)

12. ECOLOGICAL INFORMATION

Acute aquatic hazard	Toxic to aquatic life <u>1-ACETOXY-2-ETHOXYETHANE</u> LC50 (fish) 96 hr = 40 mg/L ³⁵ <u>1-benzyl 2-butyl benzene-1,2-dicarboxylate</u> LC50 (fish) 96 hr = 0.510 mg/L ³⁷ EC48 (shrimp) 48 hr = 0.740 mg/L ⁵⁷ <u>2-PROPANOL</u> LC50 (fish) 96 hr = 6120 mg/L ²² <u>Acetone</u> LC50 (fish) 96 hr = 4710 mg/kg ²³
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Long term aquatic hazard

LC50 (fish) 96 hr = 4740 mg/L²⁴

Butyl Acetate

LC50 (fish) 96 hr = 18 mg/L²⁴

EC48 (shrimp) 48 hr = 32 mg/L²⁴

Ethyl Benzene

LC50 (fish) 96 hr = 4.20 mg/L⁹

EC48 (shrimp) 48 hr = 2.10 mg/L⁸

ErC-EC72 (Fungi) 96 hr = 4.60 mg/L⁸

Ethyl acetate

LC50 (fish) 96 hr = 230 mg/L³¹

ErC-EC72 (Fungi) 96 hr = 5600 mg/L³¹

Lead chromate molybdate sulfate red

LC50 (fish) 96 hr = 2.5 mg/L⁶⁴

ErC-EC72 (Fungi) 96 hr = 100 mg/L⁶⁴

Toluene

LC50 (fish) 96 hr = 7.3 mg/L³⁸

EC48 (shrimp) 48 hr = 6 mg/L³⁸

ErC-EC72 (Fungi) 96 hr = 12.5 mg/L³⁸

Xylene

LC50 (fish) 96 hr = 3.30 mg/L⁵

Harmful to aquatic life with long lasting effects

1-benzyl 2-butyl benzene-1,2-dicarboxylate

NOEC fish = 64.6 mg/L⁵⁷

NOEC shrimp = 0.075 mg/L⁵⁷

NOEC fungi = 0.150 mg/L⁵⁷

Acetone

NOEC fish = 530 mg/L²³

NOEC fungi = 430 mg/L²³

Butyl Acetate

NOEC fish = 23 mg/L²⁴

NOEC shrimp = 23 mg/L²⁴

NOEC fungi = 196 mg/L²⁴

Ethyl Benzene

NOEC fish = 3.30 mg/L⁸

NOEC shrimp = 1 mg/L⁸

NOEC fungi = 3.4 mg/L⁸

Ethyl acetate

NOEC fish = 6.9 mg/L³¹

NOEC shrimp = 2.4 mg/L³¹

NOEC fungi = 100 mg/L³¹

Lead chromate molybdate sulfate red

NOEC fish = 1 mg/L⁶⁴

Toluene

NOEC fish = 1.4 mg/L³⁹

NOEC shrimp = 7.4 mg/L³⁹

NOEC fungi = 10 mg/L³⁹

Xylene

NOEC fish = 1.30 mg/L¹⁰

NOEC shrimp = 1.57 mg/L⁶

NOEC fungi = 0.44 mg/L⁶

Persistence and degradability

Rapidly degradable (Acetone, Butyl Acetate, Ethyl Benzene, Ethyl acetate, Toluene, Xylene)

Bioaccumulative potential

Bioaccumulative potential

1-ACETOXY-2-ETHOXYETHANE

log KOW = 0.24⁴¹

BCF = 3⁴¹

1-benzyl 2-butyl benzene-1,2-dicarboxylate

log KOW = 4.84 @ 20 °C⁵⁵

Acetone

log KOW = -0.24⁴³

BCF = 0.69⁴³

Butyl Acetate
log KOW = 1.78⁴⁴
BCF = 7.00⁴⁴

Ethyl Benzene
log KOW = 3.03⁸
BCF = 110⁸

Ethyl acetate
log KOW = 0.73⁴⁵
BCF = 3⁴⁵

Lead chromate molybdate sulfate red
BCF = 1553⁶⁴

Toluene
log KOW = 2.73⁴⁶
BCF = 13⁴⁶

Xylene
log KOW = 3.20¹³
BCF = 14.80¹³

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

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- 55. <https://ecna.europa.eu/brief-profile/-/briefprofile/100.001.475> (17-4-20)
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- 57. <https://echa.europa.eu/brief-profile/-/briefprofile/100.001.475> (8-3-2024)
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- 59. <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~Q1zAvm:3> (3-5-19)
- 60. <https://echa.europa.eu/brief-profile/-/briefprofile/100.033.327> (3-5-19)
- 61. <https://www.osha.gov/chemicaldata/chemResult.html?recNo=246> (3-5-19)
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- 63. <https://echa.europa.eu/brief-profile/-/briefprofile/100.051.890> (17-12-19)
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