

1. IDENTIFICATION OF THE MIXTURE AND OF THE SUPPLIER
Product Identifier

Product	Automotive Enamel Black [37-0001]
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 - oral	Category 5
Acute toxicity - dermal	Category 4
Skin corrosion/irritation	Category 3
Eye damage/irritation	Category 2A
Specific target organ toxicity (repeated exposure)	Category 1
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: 50.74%
- Percentage of mixture consisting of ingredient(s) of unknown dermal toxicity: 54.19%
- Percentage of mixture consisting of ingredient(s) of unknown inhalation toxicity: 85.60%

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
- H312 Harmful in contact with skin
- H316 Causes mild skin irritation
- H319 Causes serious eye irritation
- H372 Causes 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]

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.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
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+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.
P305+P351+P338 IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor / physician if you feel unwell.
P314 Get medical advice / attention if you feel unwell.
P322 Specific measures (see on this label).
P331 Do NOT induce vomiting.
P332+P313 IF skin irritation occurs Get medical advice / attention.
P337+P313 IF eye irritation persists Get medical advice / attention.
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+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)
Butanoxime	96-29-7	0.99 - 1.14
Carbon Black	1333-86-4	3.40 - 3.94
PETROLEUM ETHER	64742-82-1	40.54 - 46.95
Polymer resin	-	43.92 - 50.85
Xylene	1330-20-7	6.15 - 7.12

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 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>Carbon Black</u> OSHA PEL-TWA 3.5 mg/m ³ ¹⁴ NIOSH REL-TWA 3.5 mg/m ³ ¹⁴ CAL/OSHA PEL-TWA 3.5 mg/m ³ ¹⁴ Safe Work Australia (Australia, 4/2024) TWA : 3 mg/m ³ 8 hours. ¹⁸ Safe Work Australia (Australia, 4/2024) TWA : 50 ppm 8 hours. ¹⁶ TWA : 296 mg/m ³ 8 hours. ¹⁶ STEL : 100 ppm 15 minutes. ¹⁶ STEL : 593 mg/m ³ 15 minutes. ¹⁶ <u>Xylene</u> OSHA PEL-TWA 100 ¹⁵ Skin notification N ¹⁵ NIOSH REL-TWA 100 ¹⁵ Skin notification N ¹⁵ ACGIH TLV-TWA 100 ¹⁵ TLV-STEL 150 ¹⁵ Skin notification N ¹⁵ CAL/OSHA PEL-TWA 100 ¹⁵ PEL-STEL 150 ¹⁵ PEL-C 300 ¹⁵ Skin notification N ¹⁵ Safe Work Australia (Australia, 4/2024) TWA : 80 ppm 8 hours. ¹⁷ TWA : 350 mg/m ³ 8 hours. ¹⁷ STEL : 150 ppm 15 minutes. ¹⁷ STEL : 655 mg/m ³ 15 minutes. ¹⁷
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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

Black

Odour

Organic solvent

pH

Not available

Melting point/freezing point

Not available

Boiling point or initial boiling point and boiling range

139.5 °C (283.1 °F) (Xylene)

Flash point

18.0 °C (64.4 °F) (Xylene)

Flammability

Flammable

Lower and upper explosion limit/flammability limit

Not available

Vapour pressure

8 hPa at 20 °C (Xylene)

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

187.5 °C (369.5 °F) (Xylene)

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 = 4707.41 mg/kg (Category 5)

Butanoxime LD50 (rat) oral = 900.00 mg/kg¹

Carbon Black LD50 (rat) oral = 10000.00 mg/kg²

PETROLEUM ETHER LD50 (rat) oral = 5000.00 mg/kg³

Acute toxicity (dermal)

ATEmix = 1953.59 mg/kg (Category 4)

Butanoxime LD50 (rabbit) dermal = 1000.00 mg/kg¹

PETROLEUM ETHER LD50 (rabbit) dermal = 2000.00 mg/kg³

Acute toxicity (inhalation)

Not available

Skin corrosion and skin irritation

Causes mild skin irritation (Xylene)

Serious eye damage or eye irritation

Causes serious eye irritation (Butanoxime)

Respirator and skin sensitization

Not classified

Skin sentization

Not classified

Germ cell mutagenicity

Not classified

Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity following single exposure	Not classified
Specific target organ toxicity following repeated exposure	Causes damage to organs through prolonged or repeated exposure (PETROLEUM ETHER)
Aspiration hazard	May be fatal if swallowed and enters airways (PETROLEUM ETHER)

12. ECOLOGICAL INFORMATION

Acute aquatic hazard	<p>Toxic to aquatic life</p> <p><u>Butanoxime</u> LC50 (fish) 96 hr = 100 mg/L¹ EC48 (shrimp) 48 hr = 201 mg/L¹ ErC-EC72 (Fungi) 96 hr = 6.09 mg/L¹</p> <p><u>Carbon Black</u> LC50 (fish) 96 hr = 100 mg/L⁸</p> <p><u>Xylene</u> LC50 (fish) 96 hr = 3.30 mg/L⁴</p>
Long term aquatic hazard	<p>Harmful to aquatic life with long lasting effects</p> <p><u>Butanoxime</u> NOEC fish = 50 mg/L¹ NOEC shrimp = 100 mg/L¹ NOEC fungi = 2.56 mg/L¹</p> <p><u>Carbon Black</u> NOEC fish = 100 mg/L⁸ NOEC shrimp = 3.20 mg/L¹⁰ NOEC fungi = 100 mg/L⁸</p> <p><u>Xylene</u> NOEC fish = 1.30 mg/L⁹ NOEC shrimp = 1.57 mg/L⁵ NOEC fungi = 0.44 mg/L⁵</p>
Persistence and degradability	Rapidly degradable (Butanoxime,Xylene)
Bioaccumulative potential	<p>Bioaccumulative potential</p> <p><u>Butanoxime</u> log KOW = 0.63¹² BCF = 0.5¹²</p> <p><u>Xylene</u> log KOW = 3.20¹³ BCF = 14.80¹³</p>
Mobility in soil	<p>The product is insoluble 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.</p>
Other adverse effects	Not available

13. DISPOSAL CONSIDERATIONS

Disposal methods	<p>Disposing of this material/container should be done under all the regulations or handled by authorized waste collector in your country</p>
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

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References

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3. <https://echa.europa.eu/brief-profile/-/briefprofile/100.059.242> (24-12-19)
4. <https://www.epa.govt.nz/database-search/chemical-classification-and-information-database-ccid/view/682> (04-05-19)
5. <https://echa.europa.eu/brief-profile/-/briefprofile/100.014.124> (24-12-19)
6. <https://echa.europa.eu/brief-profile/-/briefprofile/100.059.242> (14/8/19)
7. <https://monographs.iarc.who.int/list-of-classifications> (22-1-2025)
8. <https://echa.europa.eu/brief-profile/-/briefprofile/100.014.191> (22-1-2025)
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10. <https://echa.europa.eu/brief-profile/-/briefprofile/100.014.191> (04-05-19)
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12. <https://pubchem.ncbi.nlm.nih.gov/compound/7292#section=Environmental-Abiotic-Degradation> (23-10-19)
13. <https://pubchem.ncbi.nlm.nih.gov/compound/7292#section=Environmental-Fate> (04-05-19)
14. <https://www.osha.gov/chemicaldata/236> (22-1-2025)
15. <https://www.osha.gov/chemicaldata/chemResult.html?recNo=228> (04-05-19)
16. Safe Work Australia Workplace exposure limits for airborne contaminants April 2024 (20-8-24)
17. Safe Work Australia Workplace exposure limits for airborne contaminants April 2024 (21-8-2024)
18. Safe Work Australia Workplace exposure limits for airborne contaminants April 2024 (20-8-2024)