

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

## **Product Identifier**

Product Automotive Enamel Lemon Yellow #581 [37-6014]

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 - oral

Acute toxicity - dermal

Skin corrosion/irritation

Eye damage/irritation

Category 2

Eye damage/irritation

Category 2

Sentization - skin

Category 1

Specific target organ toxicity

Category 1

(repeated exposure)

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

acute hazard

Hazardous to the aquatic environment - Category 1

long-term hazard

Remark:

Percentage of mixture consisting of ingredient(s) of unknown oral toxicity: 51.48% Percentage of mixture consisting of ingredient(s) of unknown dermal toxicity: 66.59% Percentage of mixture consisting of ingredient(s) of unknown inhalation toxicity: 80.56%

## **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

H312 Harmful in contact with skin

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H372 Causes damage to organs through prolonged or repeated exposure

H401 Toxic to aquatic life

H410 Very toxic 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.

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

P264 Wash thoroughly after handling.

P270 Do no eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

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.

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.

P333+P313 IF skin irritation or rash occurs Get medical advice / attention.

P337+P313 IF eye irritation persistsGet medical advice / attention.

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+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	2.72 - 3.15
Ethyl Benzene	100-41-4	1.38 - 1.59
PETROLEUM ETHER	64742-82-1	24.94 - 28.88
Polymer resin	-	41.25 - 47.76
Xylene	1330-20-7	10.81 - 12.52
lead(2+) ion dioxochromiumbis(olate)	1344-37-2	13.91 - 16.10

# 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 Ingestion

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

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.

Prevent the material from entering drains or water courses. Environmental precautions

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

Ethyl Benzene OSHA Control parameters

PEL-TWA 100<sup>14</sup>

Skin notification N<sup>14</sup>

NIOSH

REL-TWA 100<sup>14</sup> REL-STEL 125<sup>14</sup>

Skin notification N14

**ACGIH** 

TLV-TWA 20<sup>14</sup>

Skin notification N<sup>14</sup>

CAL/OSHA

PEL-TWA 100<sup>14</sup>

PEL-STEL 125<sup>14</sup>

Skin notification N<sup>14</sup>

Safe Work Australia (Australia, 4/2024)

TWA: 20 ppm 8 hours. 16

TWA: 87 mg/m<sup>3</sup> 8 hours. <sup>16</sup>

Safe Work Australia (Australia, 4/2024)

TWA: 50 ppm 8 hours. 17

TWA: 296 mg/m<sup>3</sup> 8 hours. 17

STEL: 100 ppm 15 minutes. 17

STEL: 593 mg/m<sup>3</sup> 15 minutes. <sup>17</sup>

<u>Xylene</u>

**OSHA** 

PEL-TWA 10015

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## SAFETY DATA SHEET

Skin notification N<sup>15</sup>

NIOSH

REL-TWA 100<sup>15</sup> Skin notification N<sup>15</sup>

**ACGIH** 

TLV-TWA 100<sup>15</sup>
TLV-STEL 150<sup>15</sup>
Skin notification N<sup>15</sup>

CAL/OSHA
PEL-TWA 100<sup>15</sup>
PEL-STEL 150<sup>15</sup>
PEL-C 300<sup>15</sup>

Skin notification N<sup>15</sup>

Safe Work Australia (Australia, 4/2024)

TWA: 80 ppm 8 hours. <sup>18</sup>
TWA: 350 mg/m<sup>3</sup> 8 hours. <sup>18</sup>
STEL: 150 ppm 15 minutes. <sup>18</sup>
STEL: 655 mg/m<sup>3</sup> 15 minutes. <sup>18</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 Yellow

Odour Organic solvent

PH Not available

Melting point/freezing point Not available

Boiling point or initial boiling point and

ıd

-20.0 °C (-4.0 °F) (PETROLEUM ETHER)

boiling range

Flash point -40.0 °C (-40.0 °F) (PETROLEUM ETHER)

Flammability Flammable
Lower and upper explosion limit/flammability Not available

limit

Vapour pressure 9 hPa at 20 °C (Ethyl Benzene)

Density and/or relative density 0.95 - 1.05 g/cm<sup>3</sup>
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) (PETROLEUM ETHER)

Decomposition temperature Not applicable

Viscosity 80 - 90 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



High temperatures, sparks, open flame, and all other sources of ignition Condition to avoid

Incompatible materials Strong oxidizing agents, strong acids

Hazardous decomposition products Not available

11. TOXICOLOGICAL INFORMATION

Acute toxicity (oral) ATEmix = 4384.34 mg/kg (Category 5)

> Butanoxime LD50 (rat) oral = 900.00 mg/kg<sup>1</sup> Ethyl Benzene LD50 (rat) oral = 3500.00 mg/kg<sup>2</sup> PETROLEUM ETHER LD50 (rat) oral = 5000.00 mg/kg3

lead(2+) ion dioxochromiumbis(olate) LD50 (rat) oral = 10000.00 mg/kg<sup>4</sup>

ATEmix = 1820.91 mg/kg (Category 4) Acute toxicity (dermal)

Butanoxime LD50 (rabbit) dermal = 1000.00 mg/kg<sup>1</sup>

PETROLEUM ETHER LD50 (rabbit) dermal = 2000.00 mg/kg<sup>3</sup>

Acute toxicity (inhalation) Not available

Skin corrosion and skin irritation Causes skin irritation (Xylene)

Serious eye damage or eye irritation Causes serious eye irritation (Butanoxime)

Respirator and skin sensitzation Not classified

May cause an allergic skin reaction (Butanoxime) Skin sentization

Germ cell mutagenicity Not classified Carcinogenicity Not classified Not classified Reproductive toxicity Specific target organ toxicity following single Not classified

exposure

Specific target organ toxicity following Causes damage to organs through prolonged or repeated exposure (Ethyl Benzene, PETROLEUM

repeated exposure ETHER)

Aspiration hazard May be fatal if swallowed and enters airways (Ethyl Benzene, PETROLEUM ETHER)

# 12. ECOLOGICAL INFORMATION

Acute aquatic hazard Toxic to aquatic life

Butanoxime

LC50 (fish) 96 hr = 100 mg/L<sup>1</sup> EC48 (shrimp) 48 hr =  $201 \text{ mg/L}^1$ ErC-EC72 (Fungi) 96 hr = 6.09 mg/L<sup>1</sup>

Ethyl Benzene LC50 (fish) 96 hr = 4.20 mg/L<sup>9</sup> EC48 (shrimp) 48 hr =  $2.10 \text{ mg/L}^8$ ErC-EC72 (Fungi) 96 hr =  $4.60 \text{ mg/L}^8$ 

<u>Xylene</u> LC50 (fish) 96 hr =  $3.30 \text{ mg/L}^5$ 

<u>lead(2+) ion dioxochromiumbis(olate)</u> EC48 (shrimp) 48 hr = 100 mg/L<sup>4</sup> ErC-EC72 (Fungi) 96 hr =  $100 \text{ mg/L}^4$ 

Long term aquatic hazard Very toxic to aquatic life with long lasting effects

**Butanoxime** 

 $\overline{NOEC fish} = 50 \text{ mg/L}^1$ NOEC shrimp =  $100 \text{ mg/L}^1$ NOEC fungi =  $2.56 \text{ mg/L}^1$ 

Ethyl Benzene NOEC fish = 3.30 mg/L<sup>8</sup> NOEC shrimp =  $1 \text{ mg/L}^8$ NOEC fungi =  $3.4 \text{ mg/L}^8$ 

NOEC fish = 1.30 mg/L<sup>10</sup> NOEC shrimp =  $1.57 \text{ mg/L}^6$ NOEC fungi =  $0.44 \text{ mg/L}^6$ 

load/2 11 ian diayashramiumbia/alata)



NOEC fish = 1 mg/L<sup>4</sup>

NOEC shrimp =  $0.07 \text{ mg/L}^4$ 

Persistance and degradability Rapidly degradable (Butanoxime, Ethyl Benzene, Xylene)

Bioaccumulative potential Bioaccumulative potential

> **Butanoxime**  $\log KOW = 0.63^{12}$  $BCF = 0.5^{12}$

Ethyl Benzene log KOW = 3.038  $BCF = 110^{8}$ 

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

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

to

evaporate while other components are expected to be highly mobile in soil and have the potential to

reach underground water supplies.

Not available Other adverse effects

## 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 Ш

Environmental hazards Not applicable Special precautions Not applicable Transport in bulk Not applicable

# 15. REGULATORY INFORMATION

Inventory of existing chemical substance

All component in this product are listed

produced or imported in USA (TSCA)

Toxic substance control act (TSCA)

All component in this product are listed

## 16. OTHER INFORMATION

Issue date: 24 June 2025

## References

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