

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

#### **Product Identifier**

Product Hardener for Epoxy Primer [21-17]

Recommended use of chemical Use as hardener

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

Supplier's details

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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

Category 2

Category 2

Category 2

Category 2

Sentization - respiratory

Category 1

Specific target organ toxicity

Category 3

(single exposure)

Hazardous to the aquatic environment - Category 2

acute hazard

Hazardous to the aquatic environment - Category 3

long-term hazard

Remark:

Percentage of mixture consisting of ingredient(s) of unknown oral toxicity: 83.18%

Percentage of mixture consisting of ingredient(s) of unknown dermal toxicity: 83.18%

Percentage of mixture consisting of ingredient(s) of unknown inhalation toxicity: 36.83%

## **GHS label elements**

Pictogram or symbol





Signal word Danger

# Hazard statement:

H225 Highly Flammable liquid and vapour

H302 Harmful if swallowed

H313 May be harmful in contact with skin

H315 Causes skin irritation

H319 Causes serious eye irritation

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

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.

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.

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]

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.

P312 Call a POISON CENTER or doctor / physician if you feel unwell.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

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.

P362 Take off contaminated clothing and wash 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-Butanol	71-36-3	15.56 - 18.01
Polyamide curing agent	63428-84-2	35.17 - 40.73
Xylene	1330-20-7	44.27 - 51.26

# 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<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 Environmental precautions protective equipment. Use only non-sparkling tools.

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 <u>1-Butanol</u>

OSHA

PEL-TWA 100 ppm (300 mg/m<sup>3</sup>)<sup>8</sup>

Skin notification N<sup>8</sup>

NIOSH

REL-C 50 ppm (150 mg/m<sup>3</sup>)<sup>8</sup>

Skin notification Y8

ACGIH

TLV-TWA 20 ppm [1998]<sup>8</sup> Skin notification N<sup>8</sup>

CAL/OSHA

PEL-C 50 ppm (150 mg/m<sup>3</sup>)<sup>8</sup>

Skin notification Y8

Safe Work Australia (Australia, 4/2024)

TWA: 20 ppm 8 hours. <sup>10</sup> TWA: 61 mg/m<sup>3</sup> 8 hours. <sup>10</sup>

Xylene

OSHA

PEL-TWA 100<sup>9</sup>

Skin notification N<sup>9</sup>

NIOSH

REL-TWA 1009

Skin notification N<sup>9</sup>

ACGIH

TLV-TWA 1009

TLV-STEL 150<sup>9</sup>

Skin notification N<sup>9</sup>

CAL/OSHA

PEL-TWA 1009

PEL-STEL 150<sup>9</sup>

PEL-C 300<sup>9</sup>

Skin notification N9

Cafa Mark Australia / Australia / /2024)



Sale VVOIK MUSUIAIIA (MUSUIAIIA, 4/2024)

TWA: 80 ppm 8 hours. <sup>11</sup>
TWA: 350 mg/m<sup>3</sup> 8 hours. <sup>11</sup>
STEL: 150 ppm 15 minutes. <sup>11</sup>
STEL: 655 mg/m<sup>3</sup> 15 minutes. <sup>11</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
 Transparent

 Odour
 Organic solvent

 pH
 Not available

 Melting point/freezing point
 Not Available

Boiling point or initial boiling point and 139.5 °C (283.1 °F) (Xylene)

boiling range

Flash point 18.0 °C (64.4 °F) (Xylene)

Flammability Flammable
Lower and upper explosion Not Available
limit/flammability limit Not Available

Vapour pressure 10 hPa at 20 °C (1-Butanol)

Density and/or relative density 0.83 - 0.93 g/cm<sup>3</sup>
Relative vapour density Not Available

Solubility Soluble in Organic solvent

Partition coefficient n-octanol/water (log

value)

187.5 °C (369.5 °F) (Xylene)

Not applicable

Decomposition temperature Not applicable

Viscosity 14 - 18 second at 30 °C

Particle characteristics Not applicable

# 10. STABILITY AND REACTIVITY

Auto-ignition temperature

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 = 790.00 mg/kg (Category 4)

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

Acute toxicity (dermal) ATEmix = 3400.00 mg/kg (Category 5)

1-Butanol LD50 (rabbit) dermal = 3400.00 mg/kg<sup>1</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 (1-Butanol)

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



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

Specific target organ toxicity following single

exposure

May cause respiratory irritation (1-Butanol)

Specific target organ toxicity following

repeated exposure

Not classified

Aspiration hazard

Not classified

## 12. ECOLOGICAL INFORMATION

Acute aquatic hazard Toxic to aquatic life

 $\frac{1-Butanol}{LC50 \text{ (fish)}} 96 \text{ hr} = 100 \text{ mg/L}^1$ EC48 (shrimp) 48 hr =  $1983 \text{ mg/L}^1$ 

 $\frac{\text{Xylene}}{\text{LC50 (fish) 96 hr}} = 3.30 \text{ mg/L}^2$ 

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

1-Butanol

NOEC shrimp =  $4.1 \text{ mg/L}^4$ 

 $\frac{\text{Xylene}}{\text{NOEC fish}} = 1.30 \text{ mg/L}^5$ NOEC shrimp =  $1.57 \text{ mg/L}^3$ NOEC fungi =  $0.44 \text{ mg/L}^3$ 

Persistance and degradability Rapidly degradable (Xylene) Bioaccumulative potential Bioaccumulative potential

 $\frac{1-Butanol}{log KOW} = 0.88^{6}$ 

 $BCF = 3^6$ 

 $\frac{\text{Xylene}}{\text{log KOW}} = 3.20^7$  $BCF = 14.80^7$ 

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 Do not re-use empty containers

## 14. TRANSPORT INFORMATION

Labels required

Container disposal



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 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: 12 June 2025

#### References

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- 4. https://echa.europa.eu/brief-profile/-/briefprofile/100.000.683 (3-5-19)
- 5. https://echa.europa.eu/brief-profile/-/briefprofile/100.014.124 (04-05-19)
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- 9. https://www.osha.gov/chemicaldata/chemResult.html?recNo=228 (04-05-19)
- 10. Safe Work Australia Workplace exposure limits for airborne contaminants April 2024 (20-8-2024)
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- 19. https://echa.europa.eu/brief-profile/-/briefprofile/100.028.896 (21/8/19)
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- 24. https://www.osha.gov/chemicaldata/chemResult.html?recNo=635 (21/8/19)
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