

ACCORDING TO THE OCCUPATIONAL SAFETY AND HEALTH (CLASSIFICATION, LABELLING AND SAFETY DATA SHEET OF HAZARDOUS CHEMICALS) REGULATIONS 2013 (CLASS REGULATIONS)

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name ONE PACK EPOXY ETCHING PRIMER (CANVAS GREY)
 Product code TOA MULTIPRIME
 CAS No. Not applicable.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) Paint for professional use.
 Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Company Identification TOA PAINT (M) SDN BHD
 Address of Manufacturer LOT 37625, JALAN 2/37A,
 TAMAN BUKIT MALURI,
 OFF JALAN KEPONG,
 52100 KUALA LUMPUR,
 MALAYSIA.
 Telephone +603-62721346 (Office hours)
 6016-3375428 (After office hours)
 E-mail admin@toapaint.com.my
 Website http://www.toapaint.com.my

1.4 Emergency telephone number

Company +603-62721346 (Office hours)
 6016-3375428 (After office hours)

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Occupational Safety and Health Flam. Liq. 2; Highly flammable liquid and vapour.
 (Classification, Labelling and Safety Data Skin Irrit. 2; Causes skin irritation.
 Sheet of Hazardous Chemicals) Skin Corrosion / irritation. 2; May cause skin irritation.
 Regulations 2013 (CLASS Regulations) Serious Eye Damage or Eye Irritation. 2; Cause serious eye irritation.
 Carcinogenicity. 2
 Reproductive Toxicity. 2
 Acute Toxicity: Oral. 4; Harmful if swallowed
 Dermal. 4; Harmful if contact with skin
 Inhalation. 4; Harmful if inhaled
 Specific Target Organ Toxicity (single exposure). 3
 Specific Target Organ Toxicity (repeated exposure). 1
 Aspiration Hazard. 1

2.2 Label elements

Product Name ONE PACK EPOXY ETCHING PRIMER (CANVAS GREY)
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Hazard Pictogram(s)



Signal Word(s)

Danger.

Hazard Statement(s)

H225: Highly flammable liquid and vapour.
 H302: Harmful if swallowed
 H304: May be fatal if swallowed and enters airways.
 H313: May be harmful in contact with skin.
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H319: Cause serious eye irritation.
 H332: Harmful if inhaled (vapour).
 H335: May cause respiratory irritation.
 H336: May cause drowsiness or dizziness.
 H372: Causes damage to organs through prolonged or repeated exposure.

Precautionary Statement(s)

P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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/ vapours/spray.
 P261: Avoid breathing vapours/spray.
 P264: Wash hand, mouth, etc 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.
 P281: Use personal protective equipment as required.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P302+P352: IF ON SKIN: Wash with plenty of water/soap.
 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.
 P308 + P313: IF exposed or concerned: Get medical advice/attention.

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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 First Aid Measures).
 P331: Do NOT induce vomiting.
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 P337 + P313: If eye irritation persists: Get medical advice/attention.
 P362: Take off contaminated clothing and wash before reuse.
 P370+P378: In case of fire: Use polar resistant foam, CO2 or dry powder to extinguish.
 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.
 P501: Dispose of contents/container to appropriate waste site or reclaimer in accordance with local/regional/nation or national regulations.

2.3 Other hazards

None known.

2.4 Additional Information

For full text of H/P Statements see section 16.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	%W/W	Hazard Statement(s)
Methyl benzene	108-88-3	3-8	Flam. Liq. 2 H225 Acute Tox. 4 H312 Acute Tox. 4 H302 Reproductive Tox. 1A H360 STOT (repeated exposure). 1 H372
Butan-1-ol	71-36-3	5-10	Flam. Liq. 3 H226 Acute Tox. 4 H312 Skin Irrit. 2 H315 STOT (single exposure). 3 H335
Propyl alcohol	67-63-0	50-60	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT (single exposure). 3 H336
Dimethylbenzene	1330-20-7	10-15	Flam. Liq. 3 H226 Acute Tox. 4 H312 Skin Irrit. 2 H315 Acute Tox. 4 H332
Zinc potassium chromate	11103-86-9	2-5	Acute Tox. 4 H302 May cause an allergic skin reaction. H317 May cause cancer. H350

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4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing.
Skin Contact	Wash with plenty of water/soap. Take off immediately all contaminated clothing and wash it before reuse. Do not use solvents or diluting agents for skin cleaning. If skin irritation or rash occurs: Get medical advice/attention.
Eye Contact	Flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, obtain medical attention.
Ingestion	Do not induce vomiting. Seek medical treatment.

4.2 Most important symptoms/effects, acute and delayed

May cause an allergic skin reaction. Will cause skin irritation.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

5. SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media	Extinguish with carbon dioxide, dry chemical, foam or water spray.
Unsuitable extinguishing media	Water jet spray.

5.2 Special hazards arising from the substance or mixture

Highly flammable liquid and vapour. Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide.

5.3 Special protective equipment and precautions for fire fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Dike fire control water for later disposal.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid breathing vapours. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Ensure full personal protection (including respiratory protection) during removal of spillages.

6.2 Environmental precautions

Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.

6.4 Reference to other sections

See Also Section 8, 13.

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7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing vapours/spray. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wash hands and exposed skin thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Storage temperature

5 – 35 °C

Storage life

Stable under normal conditions.

Incompatible materials

Strong oxidising agents, Alkaline, Acids, Amines.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Methyl benzene	108-88-3	-	-	150	560	NIOSH
Butan-1-ol	71-36-3	20	-	-	-	ACGIH
Propyl alcohol	67-63-0	400	983	400	-	MY PEL
Dimethylbenzene	1330-20-7	100	434	125	543	NZ OEL
Zinc potassium chromate	11103-86-9	-	0.01	-	-	ACGIH

Source: Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations

8.2 Exposure controls

8.2.1. Appropriate engineering controls Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Individual protection measures, such as personal protective equipment (PPE)



Eye Protection

Wear protective eye glasses for protection against liquid splashes.

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Skin protection

Wear protective clothing and gloves: Impervious gloves.



Respiratory protection

During spraying wear suitable respiratory equipment: Always wear a self-contained breathing apparatus or full-face airline respirator when using this chemical.
For operations other than spraying: A suitable mask with filter type A may be appropriate.



Thermal hazards

Not applicable.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Grey.
Odour	Solvent odour.
Odour threshold	Not established.
pH	Not applicable.
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	67°C
Flash Point	29 °C (DIN 53213/ISO 1523)
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	1.0 – 7.0 Vol-%
Vapour pressure	Not applicable.
Vapour density	Heavier than air
Density	0.85 – 0.95 g/cm ³ @ 20°C (DIN 53217/ISO 2811)
Relative density	Not available.
Solubility(ies)	Solubility (Water) : Very slightly soluble. Solubility (Other) : Miscible with most organic solvents.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	268°C (DIN 51794 based on organic solvent content)
Decomposition Temperature (°C)	Not available.
Viscosity	35 s @ 23°C (ASTM D1200)
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2 Other information

Solvent separation test	<3 %
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10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None anticipated. Mixture reacts slowly with water resulting evolution of carbon

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dioxide. Evolution of carbon dioxide in closed containers causes overpressure and produces a risk of bursting. Reacts with amines or alcohols which cause exothermic reactions.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Avoid heating temperature above 30 °C.

10.5 Incompatible materials

Strong oxidising agents, Alkaline, Acids, Amines.

10.6 Hazardous decomposition products

This product decomposed on heating producing their oxide or monomers.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Methyl benzene

Acute toxicity - Oral (rat)	LD ₅₀ > 5580mg/kg
Acute toxicity - Dermal (rabbit)	LD ₅₀ > 5000mg/kg
Acute toxicity - Inhalation - (rat)	LC ₅₀ > 25.7mg/L (4 hours)

Butan-1-ol

Acute toxicity - Oral (rat)	LD ₅₀ > 1200mg/kg
Acute toxicity - Dermal (rabbit)	LD ₅₀ > 3400mg/kg
Acute toxicity - Inhalation - (rat)	LC ₅₀ > 24.3mg/L (4 hours)

Propyl alcohol

Acute toxicity - Oral (rat)	LD ₅₀ > 5000 mg/kg
Acute toxicity - Dermal (rabbit)	LD ₅₀ > 5000mg/kg
Acute toxicity - Inhalation - (rat)	LC ₅₀ low toxicity

Dimethylbenzene

Acute toxicity - Oral (rat)	LD ₅₀ > 2000mg/kg
Acute toxicity - Dermal (rabbit)	LD ₅₀ > 2000mg/kg
Acute toxicity - Inhalation - (rat)	LC ₅₀ > 20.0mg/L (4 hours)

Zinc potassium chromate

Acute toxicity - Oral (rat)	LD ₅₀ > 327mg/kg
Acute toxicity - Dermal (rabbit)	LD ₅₀ > No data
Acute toxicity - Inhalation - (rat)	LC ₅₀ > 270mg/L

Skin corrosion/irritation

Moderate skin irritation. 24 hours 500mg exposure (rabbit)

Serious eye damage/irritation

Insufficient to classified.

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Skin sensitization data	May cause an allergic skin reaction. No data.
Respiratory sensitization data	May cause irritation to the respiratory system.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	None anticipated.
Lactation	Not classified.
STOT - single exposure	Category 3. Narcotic effects
STOT - repeated exposure	Category 1. Central nervous system.
Aspiration hazard	Category 1.
Numerical measures of toxicity (acute toxicity estimation – ATE)	No data available on the mixture itself Symptoms related to the physical, chemical and toxicological characteristics Based on the properties of the isocyanate components and considering toxicological data on similar products, the following applies: This formulation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorption, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Components of the product may be absorbed into the body through the skin.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

	Low toxicity to aquatic organisms.
Toxicity - Aquatic invertebrates	Not known.
Toxicity - Fish	Not known.
Toxicity - Algae	Not known.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

12.2 Persistence and Degradation

Part of the components are biodegradable.

12.3 Bioaccumulative potential

The product has low potential for bioaccumulation.

12.4 Mobility in soil

Very slightly soluble. The product is predicted to have low mobility in soil.

12.5 Other adverse effects

Not known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Dispose of contents/container to: Suitable incineration plant.
Recycle only completely emptied packaging.

13.2 Additional Information

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Disposal should be in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

14.1 UN number

UN No. 1263

14.2 UN proper shipping name

UN proper shipping name PAINT RELATED MATERIAL

14.3 Transport hazard class(es)

ADR/RID

ADR/RID Class 3
 ADR Classification Code F1
 Special Provisions 163 640D 650
 Limited Quantities 5 L
 Excepted Quantities E2
 Emergency Action Code •3YE
 Mixed Packing Instructions for Packages P001 IBC02 R001
 Special Packing Provisions for Packages PP1
 Mixed Packing Instructions for Packages MP19
 Packing Instructions for Portable Tanks T4
 Special Provisions for Portable Tanks TP1 TP8 TP28
 Tank Code for Tanks LGBF
 Special Provisions for Tanks Not applicable
 Vehicle for Tank Carriage FL
 ADR Transport Category 2
 Tunnel Restriction Code D/E
 Special Provisions for Carriage - Packages Not applicable

Special Provisions for Carriage - Bulk Not applicable
 Special Provisions for Carriage - Loading, Unloading and Handling Not applicable

Unloading and Handling

Special Provisions for Carriage - Operation S2 S20

ADR HIN 33

IMDG

IMDG Class 3
 Special Provisions 163 640D 650
 Limited Quantities 5 L
 Excepted Quantities E2
 Mixed Packing Instructions for Packages P001 IBC02 R001
 Special Packing Provisions for Packages PP1
 Packing Instructions for Portable Tanks T4
 Special Provisions for Portable Tanks TP1 TP8 TP28
 IMDG EMS F-E,

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Stowage and Handling	A
Segregation	Not determined
ICAO/IATA	
Excepted Quantities	E2
Passenger and Cargo Aircraft Limited	Y341
Quantities Packing Instructions	
Passenger and Cargo Aircraft Limited	1L
Quantities Max net Qty	
Passenger and Cargo Aircraft Packing Instructions	353
Passenger and Cargo Aircraft Max net Qty	5L
Cargo Aircraft Packing Instructions	364
Cargo Aircraft Max net Qty	60L
Special Provisions	A72
Emergency Response Guidebook (ERG)	3L
Code	
Labels	
Labels	3



14.4 Packing group, if applicable

Packing group II

14.5 Environmental hazards

Environmental hazards Not classified as a Marine Pollutant.

14.6 Special precautions for user

Special precautions for user Confirm there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No information available

14.8 Hazchem or Emergency Action Code

No information available

15. SECTION 15: REGULATORY INFORMATION

This SDS has been prepared in accordance to The Industry Code of Practice on Chemical Classification and Hazard Communication 2014 (ICOP) and The Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 (CLASS Regulations).

15.1 Safety, health, and environmental regulations specific for the hazardous chemical in question

15.2 National regulations

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Not known.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16

LEGEND

Hazard Pictogram(s)



Hazard classification

Flam. Liq. 3 : Flammable liquid, Category 3
 Acute Tox. 4 : Acute toxicity, Category 4
 Skin Irrit. 2 : Skin corrosion/irritation, Category 2
 Skin Sens. 1 : Skin sensitization, Category 1

Hazard Statement(s)

H225: Highly flammable liquid and vapour.
 H226: Flammable liquid and vapour.
 H312: Harmful in contact with skin.
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H332: Harmful if inhaled.

Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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 vapours/spray.
 P264: Wash hands and exposed skin thoroughly after handling.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352: IF ON SKIN: Wash with plenty of water/soap.
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P321: Specific treatment (see on this label).
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 P362+P364: Take off contaminated clothing and wash it before reuse.
 P370+P378: In case of fire: Use polar resistant foam, CO₂ or dry powder to extinguish.
 P403+P235: Store in a well-ventilated place. Keep cool.
 P501: Dispose of contents in accordance with local, state or national legislation.

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Acronyms

ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS : Chemical Abstracts Service
IATA : International Air Transport Association
IBC : Intermediate Bulk Container
ICAO : International Civil Aviation Organisation
IMDG : International Maritime Dangerous Goods
LTEL : Long term exposure limit
RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL : Short term exposure limit
STOT : Specific Target Organ Toxicity
UN : United Nations

Disclaimers

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