Safety Data Sheet

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: Oakfield Clear Deep Pour Epoxy Part B

Supplier:	Oakfield Designs
ABN:	22954256647
Street Address:	22 Fersfield Rd Gisborne VIC 3437
Telephone:	+61 423 226 666

Emergency Telephone number: +61 423 226 666 **(Mon - Fri, 9am - 5pm, AEST)**

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

·***Classification according to Regulation (EC) No 1272/2008***

GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

· ***Classification according to Directive 67/548/EEC or Directive 1999/45/EC***

Xn; Harmful

R21/22: Harmful in contact with skin and if swallowed.

Xi; Irritant

R41: Risk of serious damage to eyes.


N; Dangerous for the environment
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Information concerning particular hazards for human and environment: *void*

2.2 Label elements
· ***Labelling according to Regulation (EC) No 1272/2008***
The substance is classified and labelled according to the CLP regulation. ·
Hazard pictograms


GHS05 GHS07 GHS09

· ***Signal word*** *Danger*
· ***Hazard-determining components of labelling:***
Trimethylolpropane poly (oxypropylene)triamine
· ***Hazard statements***
H302+H312 Harmful if swallowed or in contact with skin.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.
· ***Precautionary statements***
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release to the environment.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P322 Specific measures (see on this label).
P363 Wash contaminated clothing before reuse.
P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.
· ***2.3 Other hazards***
· ***Results of PBT and vPvB assessment*** · ***PBT:***
Not applicable.
· ***vPvB:*** *Not applicable.*

3. COMPOSITION INFORMATION

3.1 Chemical characterization:
Substances · ***CAS No. Designation:***
39423-51-3 Trimethylolpropane poly (oxypropylene)triamine · ***Identification number(s):***
· ***NLP Number:*** *500-105-6*
· ***Description:*** *Epoxy resin hardening agent, formulation on aliphatic polyamine basis*

4. FIRST AID MEASURES

4.1 Description of first aid measures
· ***General information*** *Instantly remove any clothing soiled by the product.* ·
After inhalation

Take affected persons into the open air and position comfortably Seek medical treatment in case of complaints.
· ***After skin contact***
Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
· ***After eye contact*** *Rinse opened eye for several minutes under running water. Then consult doctor.* · ***After swallowing*** *Drink copious amounts of water and provide fresh air. Instantly call for doctor.* · ***4.2 Most important symptoms and effects, both acute and delayed*** *No further relevant information available.*
· ***Information for doctor*** *No particular measures are known - treat according to symptoms.* ***4.3 Indication of any immediate medical attention and special treatment needed*** *No further relevant information available.*

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media
· ***Suitable extinguishing agents***
CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
· ***For safety reasons unsuitable extinguishing agents*** *Water with a full water jet.* · ***5.2 Special hazards arising from the substance or mixture*** *Formation of toxic gases is possible during heating or in case of fire.*
· ***5.3 Advice for firefighters***
· ***Protective equipment:*** *Put on breathing apparatus.*
· ***Additional information***
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures *Wear protective clothing.*
· ***6.2 Environmental precautions:***
Do not allow product to reach sewage system or water bodies.
Do not allow to enter the ground/soil.
· ***6.3 Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
· ***6.4 Reference to other sections*** *Clean the accident area carefully.*

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
The usual precautionary measures for handling chemicals must be observed.

· ***Information about protection against explosions and fires:*** *No special measures required.* · ***7.2 Conditions for safe storage, including any incompatibilities***
· ***Storage***
· ***Requirements to be met by storerooms and containers:***
Store only in the original container.
Provide floor trough without outlet.
· ***Information about storage in one common storage facility:*** *Store away from foodstuffs.*
· ***Further information about storage conditions:*** *Keep container tightly sealed.* · ***7.3***
Specific end use(s) *No further relevant information available.*

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical systems: *No further data; see item 7.*
· ***8.1 Control parameters***
· ***Components with limit values that require monitoring at the workplace:*** *Not required.* ·
PNECs
39423-51-3 Trimethylolpropane poly (oxypropylene)triamine
PNEC (predicted no effect concentration) 0.0044 mg/l (freshwater)
0.00044 mg/l (seawater)
· ***Additional information:*** *The lists that were valid during the compilation were used as basis.* ***8.2 Exposure controls***
· ***Personal protective equipment***
· ***General protective and hygienic measures*** *Keep away from foodstuffs, beverages and food. Take off immediately all contaminated clothing Wash hands during breaks and at the end of the work.*
Avoid contact with the eyes and skin.
· ***Breathing equipment:*** *Use breathing protection in case of insufficient ventilation.* ·
Recommended filter device for short term use:

Combination filter A-P2

Protection of hands:

Plastic gloves

Only use chemical-protective gloves with CE-labelling of category III.
To minimize the wetness in the glove due to perspiration changing of gloves during a shift is required.
Check the permeability prior to each anewed use of the glove.
Preventive skin protection by use of skin-protecting agents is recommended. ·
Material of gloves

Nitrile rubber, NBR
Fluorocarbon rubber (Viton)
Recommended thickness of the material: ³ 0.5 mm
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
· ***Penetration time of glove material***
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· ***Not suitable are gloves made of the following materials:***
Strong gloves
Leather gloves

· ***Eye protection:***

Tightly sealed safety glasses.
· ***Body protection:*** *Protective work clothing.*

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
· ***General Information*** · ***Appearance:***
Form: *Fluid*
Colour: *colourless-yellowish*
· ***Odour:*** *Ammonia-like*
· ***pH-value at 20 °C:*** *11.6*
· ***Change in condition***
Melting point/Melting range: *-20 °C*
Boiling point/Boiling range: *236 °C*
· ***Flash point:*** *218 °C*
· ***Ignition temperature:*** *320 °C*
· ***Self-inflammability:*** *Product is not self igniting.*
· ***Danger of explosion:*** *Product is not explosive.*
· ***Critical values for explosion:***
Lower: *Not determined.*
Upper: *Not determined.*
· ***Vapour pressure at 181 °C:*** *0.1 hPa*
· ***Density at 20 °C*** *0.966 g/cm³ (ISO 2811-2)*
· ***Solubility in / Miscibility with***
Water at 20 °C: *562 g/l* · ***Viscosity:***
dynamic: *Not determined.*
kinematic at 20 °C: *110 mm²/s*
· ***9.2 Other information*** *No further relevant information available.*

10. STABILITY AND REACTIVITY

10.1 Reactivity
· ***10.2 Chemical stability***
· ***Thermal decomposition / conditions to be avoided:***
No decomposition if used according to specifications.
· ***10.3 Possibility of hazardous reactions*** *No dangerous reactions known*
· ***10.4 Conditions to avoid*** *No further relevant information available.* · ***10.5 Incompatible materials:*** *strong oxidizing agents* · ***10.6 Hazardous decomposition products:*** *in the event of fire:*
Poisonous gases/vapours
Corrosive gases/vapours

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects · ***Acute toxicity:***
· ***LD/LC50 values that are relevant for classification:***
39423-51-3 Trimethylolpropane poly (oxypropylene)triamine

Oral	*LD50 550 mg/kg (rat)*
Dermal	*LD50 >1000 mg/kg (rat)*

· ***Primary irritant effect:***
· ***on the skin:*** *No irritant effect.*
· ***on the eye:*** *Strong irritant with the danger of severe eye injury.*
· ***Sensitization:*** *No sensitizing effect known.*

12. ECOLOGICAL INFORMATION

12.1 Toxicity · ***Aquatic toxicity:***
39423-51-3 Trimethylolpropane poly (oxypropylene)triamine

Algae toxicity	*4.4 mg/l (Alge Scenedesmus sp.) (ErC50(72h))*
Bacteria toxicity	*1000 mg/l ((activated sludge)) (EC50(0,5h))*
Daphnia toxicity	*13 mg/l (Daphnia magna (Water flea)) (EC50(48h))*
Fish toxicity	*>100 mg/l (Fisch (fish)) (LC50(96h))*

· ***12.2 Persistence and degradability*** *No further relevant information available.*
· ***12.3 Bioaccumulative potential*** *No further relevant information available.*
· ***12.4 Mobility in soil*** *No further relevant information available.*
· ***Ecotoxical effects:*** *Not determined*
· ***Remark:*** *Toxic for fish*
· ***Additional ecological information:***
· ***General notes:***
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH values.
A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is

considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

· ***12.5 Results of PBT and vPvB assessment*** · ***PBT:***
Not applicable.
· ***vPvB:*** *Not applicable.*

· ***12.6 Other adverse effects*** *No further relevant information available.*

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
· ***Recommendation***
For disposal, local regulations issued by the authorities must be observed. Dispose of liquid components at a suitable incineration plant. After curing, the product can be disposed of with household waste.
· ***European waste catalogue***

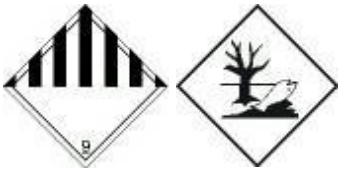
08 00 00	*WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS*
08 02 00	*wastes from MFSU of other coatings (including ceramic materials)*
08 02 99	*wastes not otherwise specified ·*

Uncleaned packagings:
· ***Recommendation:*** *Disposal must be made according to official regulations.*

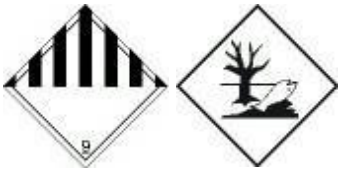
14. TRANSPORT INFORMATION

14.1 UN-Number
· ***ADR, IMDG, IATA***

14.2 UN proper shipping name
· ***ADR*** *3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trimethylolpropane poly (oxypropylene)triamine)*
· ***IMDG*** *ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trimethylolpropane poly (oxypropylene) triamine) , MARINE POLLUTANT*
· ***IATA*** *ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trimethylolpropane poly (oxypropylene)triamine)*
14.3 Transport hazard class(es)
· ***ADR***



· ***Class*** *9 (M6) Miscellaneous dangerous substances and articles.* ·
Label *9*
· ***IMDG, IATA***



Class *9 Miscellaneous dangerous substances and articles.* ·
Label *9*
14.4 Packing group
· ***ADR, IMDG, IATA*** *III*
· ***14.5 Environmental hazards:***
· ***Marine pollutant:*** *Yes*
Symbol (fish and tree)
· ***Special marking (ADR):*** *Symbol (fish and tree)*
· ***Special marking (IATA):*** *Symbol (fish and tree)*
14.6 Special precautions for user *Warning: Miscellaneous dangerous substances and articles.*
· ***Kemler Number:*** *90*
· ***EMS Number:*** *F-A,S-F*
· ***14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code*** *Not applicable.*
· ***Transport/Additional information:*** · ***ADR***
· ***Excepted quantities (EQ):*** *E1*
· ***Limited quantities (LQ)*** *5L*
· ***Transport category*** *3*
· ***Tunnel restriction code*** *E*
UN "Model Regulation": *UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trimethylolpropane poly (oxypropylene)triamine), 9, III*

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
· ***National regulations***
· ***Water hazard class:*** *Water hazard class 2 (Self-assessment): hazardous for water.*
· ***15.2 Chemical safety assessment:*** *A Chemical Safety Assessment has not been carried out.*

16. OTHER INFORMATION

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Prepared on 2021/08/16.

· ***Department issuing data specification sheet:***
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· ***Abbreviations and acronyms:***
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Acute Tox. 4: Acute toxicity, Hazard Category 4
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2