Safety Data Sheet

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: Oakfield Clear Deep Pour Epoxy Part A

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

Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

GHS09 environment
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xi; Irritant
R36/38: Irritating to eyes and skin.

Xi; Sensitising
R43: May cause sensitisation by skin contact.

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: *The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.*

Classification system:
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

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


GHS07 GHS09

· ***Signal word*** *Warning*
· ***Hazard-determining components of labelling:***
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) oxirane, mono[(C12-14-alkyloxy)methyl]
derivs · ***Hazard statements***
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
· ***Precautionary statements***
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see on this label).
P362 Take off contaminated clothing and wash before reuse.
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.
· ***Additional information:***
Contains epoxy constituents. May produce an allergic reaction.
2.3 Other hazards
· ***Results of PBT and vPvB assessment*** ·
PBT: *Not applicable.*
· ***vPvB:*** *Not applicable.*

3. COMPOSITION INFORMATION

Chemical characterization: Mixtures

Description: *Epoxy resin formulation with a bisphenol-A liquid resin*

CAS: 25068-38-6 *NLP: 500-033-5* *Index number: 603-074-00-8* *Reg.nr.: 01-2119456619-26xxxx*	*Reaction product: bisphenol - A -* *(epichlorhydrin) epoxy resin (number average molecular weight = 700)* *Xi R36/38;Xi R43; N R51/53* *Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 base*	*50-100%*
CAS: 68609-97-2 *EINECS: 271-846-8* *Index number: 603-103-00-4* *Reg.nr.: 01-2119485289-22xxxx*	*oxirane, mono[(C12-14-alkyloxy)methyl] derivs* *Xi R38; Xi R43* *Skin Irrit. 2, H315; Skin Sens. 1, H317*	*10-25%*

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*** *Seek immediate medical advice.*

· ***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.
Ensure good ventilation/exhaustion at the workplace.
· ***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:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

Dermal DNEL - worker 8.3 mg/kg / bw/d (-)
Inhalative DNEL - worker 12.3 mg/m³ (-)

PNECs

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

PNEC (predicted no effect concentration) 0.003 mg/l (freshwater)
0.0003 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· ***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.
· ***As protection from splashes gloves made of the following materials are suitable:***
PVC gloves
· ***Not suitable are gloves made of the following materials:***
Leather gloves
Strong 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: *Yellowish*
· ***Odour:*** *Characteristic*
· ***Change in condition***
Melting point/Melting range: *Not determined*
Boiling point/Boiling range: *> 200 °C*
· ***Flash point:*** *> 100 °C*
· ***Self-inflammability:*** *Product is not self igniting.*
· ***Danger of explosion:*** *Product is not explosive.*
· ***Density at 20 °C*** *1.11 g/cm³ (ISO 2811-2)*
· ***Solubility in / Miscibility with***
Water: *Not miscible or difficult to mix*
· ***Viscosity:***
dynamic at 20 °C: *700 mPas (ISO 3219)*
· ***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***

Reacts with strong oxidizing agents, alkali, amines and acids ·
10.4 Conditions to avoid *No further relevant information available. ·* ***10.5 Incompatible materials:*** *strong oxidizing agents ·*
10.6 Hazardous decomposition products: *none, if stored and handled correctly. in the event of fire: toxic gases and vapours*

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
· ***Acute toxicity:***

· ***LD/LC50 values that are relevant for classification:***
25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

Oral	*LD50*	*20000 mg/kg (mou)*
		19800 mg/kg (rab)
		11400 mg/kg (rat)
Dermal	*LD50*	*1270 mg/kg (mou)*
		>2000 mg/kg (rab)
		>1200 mg/kg (rat)

68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

Oral LD50 >5000 mg/kg (rat)
Dermal LD50 >4500 mg/kg (rab)

Primary irritant effect:
· ***on the skin:*** *Irritant to skin and mucous membranes.*
· ***on the eye:*** *Irritant effect.*
· ***Sensitization:*** *Sensitization possible by skin contact.*
· ***Additional toxicological information:***
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity:
25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

Algae toxicity	*220 mg/l (Alge Scenedesmus sp.) (EC50(96h))*
Bacteria toxicity	*3.6 mg/l (Leuciscus idus) (EC50(96h))*
Daphnia toxicity	*2 . 8 mg/l (Daphnia magna (water flea)) (EC50(48h))*
Fish toxicity	*1.3 mg/l (fish) (LC50(96h))*

68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs	
Algae toxicity	*844 mg/l (-) (EC50(72h))*
Bacteria toxicity	*>100 mg/l (activated sludge)(EC50)*
Fish toxicity	*1800 mg / l (Rainbow Trout) (LC50(96h))*

12.2 Persistence and degradability *No further relevant information available.* ·
Other information: *The product is slightly biodegradable.*
· ***12.3 Bioaccumulative potential*** *No further relevant information available.* ·

12.4 Mobility in soil *No further relevant information available.*

Other information *bioaccumulation possible*
· ***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
· ***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*** *UN3082*

· ***14.2 UN proper shipping name***

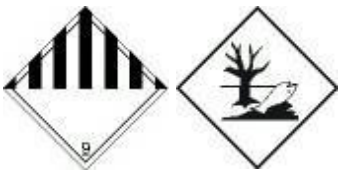
· ***ADR*** *3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)*

· ***IMDG*** *ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin), MARINE POLLUTANT*

· ***IATA*** *ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)*

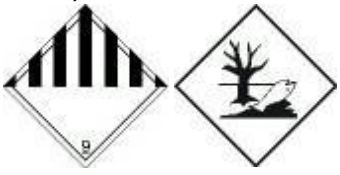
14.3 Transport hazard class(es)

· ***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:*** *Product contains environmentally hazardous substances: epoxy resin* · ***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":*** *UN 3082 , ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin), 9, II*

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
· ***Labelling according to Regulation (EC) No 1272/2008***
The product is classified and labelled according to the CLP regulation.
· ***Hazard pictograms***

GHS07 GHS09
· ***Signal word*** *Warning*
· ***Hazard-determining components of labelling:***
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs ·
Hazard statements
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
· ***Precautionary statements***
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see on this label).
P362 Take off contaminated clothing and wash before reuse. P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

· ***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.

Relevant phrases
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.
R36/38 Irritating to eyes and skin.
R38 Irritating to skin.
R43 May cause sensitisation by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Department issuing data specification sheet:
CTP Chemicals and Technologies for Polymers GmbH
Stahlstraße 60 D65428
Rüsselsheim ·
Contact:
Mr. Dr. U. Prinz
(u.prinz@ctpgmbh.de)
· ***Abbreviations and acronyms:***
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
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
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent