

**MATERIAL SAFETY DATA SHEET**Trade Name: **HYDREX® 100 33350-00**

Revision Date: 2019-03-26

Compilation Date: 2015-02-19

**1. PRODUCT AND COMPANY IDENTIFICATION****TRADE NAME** HYDREX® 100 33350-00**MANUFACTURER**Reichhold LLC 2  
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**SUPPLIER**Aurora Glass Fibre (NZ) Ltd  
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**Emergency Telephone No. +64 09 273-3540****Poisons Information Centre****0800 764 766** (from anywhere in New Zealand)**2. HAZARD IDENTIFICATION**

Classified as Hazardous according to the New Zealand Hazardous Substances Regulations. Classified as Dangerous Goods for transport according to New Zealand Standard.

**DG Classification:** Class 3**UN Number:** 1866, Resin Solution, Flammable**EPA New Zealand Approval Code:** HSR001221**HSNO Classification:**

- 3.1C Flammable Liquid
- 6.1E Acute Toxicity, Oral/Dermal
- 6.1D Acute Toxicity, Inhalation
- 6.3A Substance that is corrosive or irritating to the skin
- 6.4A Substance that is corrosive or irritating to the eye
- 6.6B Suspected human mutagen
- 6.7B Suspected human carcinogen
- 6.9B May cause damage to target organs through prolonged/repeated exposure
- 9.1C Aquatic ecotoxicity, Fish

**Hazard Statement:**

- H226 Flammable liquid and vapour
- H315 Causes skin irritation
- H317 May cause an allergic reaction
- H319 Causes serious eye irritation
- H332 Harmful if inhaled

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H351 Suspected of causing cancer  
H361 Suspected of damaging fertility or the unborn child  
H372 Causes damage to organs through prolonged or repeated exposure

### Prevention:

P201 Obtain special instruction before use  
P202 Do not handle until all safety precautions have been read and understood  
P210 Keep away from heat, sparks, open flames and hot surfaces. – No smoking  
P240 Ground/bond container and receiving equipment  
P241 Use explosion-proof electrical ventilating, lighting and other equipment  
P242 Use only non-sparking tools  
P243 Take precautionary measures against static discharge  
P260 Do not breath fumes, mists, vapours or spray  
P262 Do not get in eyes, on skin, or on clothing  
P270 Do not eat, drink or smoke when using this product  
P280 Wear protective gloves, protective clothing and eye or face protection

### Response:

P314 Get medical advice or attention if you feel unwell  
P330 Rinse mouth  
P362 Take off contaminated clothing and wash before reuse  
P301+P312 IF SWALLOWED: Call a Poison Centre or doctor  
P302+P352 IF ON SKIN: Wash with plenty of soap and water  
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  
P333+P313 If skin irritation or rash occurs: Get medical advice  
P337+P313 If eye irritation persists: Get medical advice  
P370+P378 In case of fire, use carbon dioxide, dry chemical, water fog. Alcohol resistant foam is the preferred firefighting medium, but if it is not available, normal foam can be used

### Storage:

P405 Store locked up  
P422 Store contents below 25°C  
P403+P233 Store in well ventilated place. Keep container tightly closed

### Disposal:

P501 Dispose of contents to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

#### Other Information

May be harmful in contact with skin.

Unknown acute toxicity 55.1% of the mixture consists of ingredient(s) of unknown toxicity.

Unknown aquatic toxicity 55.4% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%	Trade Secret
Vinyl Ester Resin	Proprietary	53.5	
Styrene	100-42-5	45.0	
Silica, Amorphous, Fumed, Cryst.-Free	112945-52-5	<2.0	
Cobalt compounds	Proprietary	<0.3	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", the specific chemical identity has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### Eye Contact

Immediately flush eyes for at least 15 minutes. Get medical attention.

#### Skin Contact

Wash off with warm water and soap. Remove contaminated clothing and shoes. If skin irritation persists, call a physician. Wash contaminated clothing before reuse.

#### Inhalation

Remove person to fresh air. If signs/symptoms continue, get medical attention. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is laboured, administer oxygen. Get medical attention immediately.

#### Ingestion

Do NOT induce vomiting. Aspiration hazard if swallowed – can enter lungs and cause damage. This material may enter the lungs during vomiting. Never give anything by mouth to an unconscious person. GET IMMEDIATE MEDICAL ATTENTION.

#### Most important symptoms and effects, both acute and delayed

Inhalation of high vapour concentrations can cause CNS-depression and narcosis.

#### Indication of any immediate medical attention and special treatment needed

**Notes to Physician:** Treat symptomatically

### 5. FIRE FIGHTING MEASURES

#### Suitable Extinguishing Media

Carbon dioxide (CO<sub>2</sub>), Foam, Dry Chemical, Water Spray.

#### Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

#### Specific hazards arising from the chemical

#### Hazardous combustion products

Combustion may produce carbon monoxide, carbon dioxide and irritating or toxic vapours and gases.

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### Combustion/Explosion Hazards

Flammable. Vapours may form explosive mixture with air. Flash back possible over considerable distance. Empty containers may retain product residue (liquid and/or vapor). Do not pressurize, cut, weld, braze, solder, drill, grind or expose these containers to heat, flame, sparks, static electricity, or other sources of ignition as the container may explode and may cause injury or death. Empty drums should be completely drained and properly bunged. Empty drums should be promptly returned to a drum reconditioner or properly disposed. Closed containers may rupture when exposed to extreme heat.

### Protective Equipment and Precautions for Fire-Fighters

Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use. Evacuate all person from the fire area to a safe location. Move non-burning material, as feasible, to a safe location as soon as possible. Fire fighters should be protected from potential explosion hazard while extinguishing the blaze. DO NOT extinguish a fire resulting from the flow of this flammable liquid until the flow of liquid is effectively shut off. This precaution will help prevent the accumulation of an explosive vapor-air mixture after the initial fire is extinguished. Use water spray to cool fire-exposed containers.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Remove all sources of ignition. Evacuate personnel to safe areas. Avoid contact with skin and eyes. Use personal protective equipment as required. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Soak up with inert absorbent material and dispose of as hazardous waste. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### Methods for Containment

Prevent spilled material from contaminating soil, entering sanitary sewers, storm sewers, and drainage systems and entering bodies of water or ditches that lead to waterways. Prevent spreading over a wide area (e.g. by containment or oil barriers).

### Methods for Clean-Up

Soak up with inert absorbent material. Remove from surface water (e.g. by skimming or siphoning). Dispose of contaminated material as waste according to item 13.

## 7. HANDLING AND STORAGE

### Handling

Do not breathe vapour or mist. Avoid contact with eyes, skin and clothing. Wash hands before breaks and immediately after handling the product. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. Ground and bond containers when transferring material. Use spark-proof tools and explosion-proof equipment. Consult your supplier of promoters and catalysts for additional instructions on proper mixing and usage. Empty containers may retain product residue (liquid and/or vapour). Do not pressurize, cut, weld, braze, solder, drill, grind, or expose these containers to heat, flame, sparks, static electricity, or other sources of ignition as the container may explode and may cause injury or death. Empty drums should be completely drained and properly bunged. Empty drums should be promptly returned to a drum reconditioner or properly disposed.

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### Storage

Keep away from heat and sources of ignition. No smoking. Keep away from direct sunlight. Keep containers tightly closed in a cool, well-ventilated place. To ensure maximum stability and maintain optimum resin properties, resins should be stored in closed containers at temperatures below 77°F (25°C).

<b>8. EXPOSURE CONTROLS / PERSONAL PROTECTION</b>
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### Exposure limits

Components with workplace control parameters

#### Styrene (CAS #: 100-42-5)

ACGIH TLV	20 ppm TWA 40 ppm STEL A4 Not Classifiable as a Human Carcinogen
OSHA PEL	100 ppm TWA 200 ppm Ceiling
Industry PEL	While the federal workplace exposure limit for styrene is 100 ppm, OSHA accepted the styrene industry's proposal to voluntarily meet a PEL of 50 ppm on an 8 hour TWA and a Short Term Exposure Limit (STEL) of 100 ppm, 15 minute exposure.
Canada – Alberta OELs	40 ppm STEL 170 mg/m <sup>3</sup> STEL 20 ppm TWA 85 mg/m <sup>3</sup> TWA
Canada – Ontario OELs	35 ppm TWA 100 ppm STEL
Canada – British Columbia OELs	50 ppm TWA 75 ppm STEL
NIOSH IDLH	700 ppm Immediately dangerous to life or health IDLH
Mexico OEL	100 ppm STEL 425 mg/m <sup>3</sup> STEL 50 ppm TWA 215 mg/m <sup>3</sup> TWA (skin)

#### Silica, Amorphous, Fumed, Cryst.-Free (CAS #: 112945-52-5)

OSHA PEL	20 mppcf, 80 mg/m <sup>3</sup> /%SiO <sub>2</sub> TWA
NIOSH IDLH	3000 mg/m <sup>3</sup> – Immediately dangerous to life or health (IDLH)

### Legend

- TLV® – Threshold Limit Value
- TWA – Time-Weighted Average
- STEL – Short Term Exposure Limit
- IDLH – Immediately Dangerous to Life or Health
- ACGIH – American Conference of Governmental Industrial Hygienists
- OSHA – Occupational Safety and Health Administration
- NIOSH – National Institute for Occupational Safety and Health
- OEL – Occupational Exposure Limit
- PEL – Permissible Exposure Limit
- SKIN: Skin Absorption

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### Appropriate engineering controls

#### Engineering Controls

Use general ventilation to maintain airborne concentrations to levels that are below regulatory and recommended occupational exposure limits. Local ventilation may be required during certain operations. Use explosion-proof equipment.

### Individual protection measures, such as personal protective equipment

#### Respiratory Protection

None required if hazards have been assessed and airborne concentrations are maintained below the exposure limits listed in Section 8. Wear an approved air-purifying respirator with organic vapour cartridges and particulate filters where airborne concentrations may exceed exposure limits in Section 8 and/or there is exposure to dust or mists due to sanding, grinding, cutting or spraying. Use and approved positive-pressure air-supplied respirator with emergency escape provisions if there is any potential for an uncontrolled release, airborne concentrations are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

#### Eye/Face Protection

Safety glasses with side-shields. If splashes are likely to occur: Tight sealing safety goggles. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Skin Protection

Wear protective nitrile rubber or Viton™ gloves. Gloves made of nitrile rubber or polyvinyl chloride (PVC) may be used for splash protection and brief or intermittent contact with styrenated polyester resin. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Impervious clothing. Rubber or plastic boots.

#### General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Amber - Clear
Odour	Pungent
Odour Threshold	0.2 ppm (Styrene)
Physical State	Liquid
pH	No information available
Flash Point	32°C / 89°F
Flash Point Method	Seta closed cup
Autoignition Temperature	490°C / 914°F (Styrene)
Boiling Point/Range	146°C / 295°F (Styrene)
Melting/Freezing Point	No information available
Flammability Limit in Air	
Lower	1.1% (Styrene)
Upper	6.1% (Styrene)
Specific Gravity	1.04 – 1.12 @ 25°C
Solubility	Insoluble in H <sub>2</sub> O(Water)
Evaporation Rate	< 1 (BuAc = 1)

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<b>Vapour Pressure</b>	5 mmHg @ 20°C (Styrene) 6.7 hPa (Styrene)
<b>Vapour Density</b>	3.6 (Air = 1) (Styrene) (Air = 1.0)
<b>Explosive Properties</b>	No information available
<b>Oxidising Properties</b>	No information available
<b>Percent Volatile, wt.%</b>	45.0 %
<b>VOC Content</b>	486 g/l (calculated) product as supplied
<b>Viscosity</b>	450 – 650 cps @ 25°C
<b>Partition Coefficient (n-octanol/water)</b>	No information available
<b>Decomposition Temperature</b>	No information available

### 10. STABILITY AND REACTIVITY

#### Reactivity

No dangerous reaction known under conditions of normal use.

#### Chemical Stability

Stable under normal conditions. Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

##### Hazardous Polymerization

Polymerization can occur. Hazardous polymerization will occur if contaminated with peroxides, metal salts and polymerization catalysts. Product will undergo hazardous polymerization at temperatures above 150°F (65°C).

##### Conditions to Avoid

Heat, flames and sparks. Contamination by those materials referred to under incompatible materials.

##### Incompatible Materials

Strong acids. Strong oxidising agents. Metal salts. Polymerization catalysts.

##### Hazardous Decomposition Products

Hydrocarbons. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Thermal decomposition can lead to release of irritating and toxic gases and vapours.

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

##### Primary Routes of Entry

Eye contact, Ingestion, Inhalation, Skin Contact, Skin absorption

##### Acute Toxicity

###### Styrene

Oral LD50	= 5000 mg/kg (Rat)
Dermal LD50	> 2000 mg/kg (Rat)
Inhalation LC50	= 11.8 mg/l (4 H) (Rat)

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### Silica, Amorphous, Fumed, Cryst.-Free

Oral LD50 = 3160 mg/kg (Rat)

### Information on toxicological effects

#### Symptoms

Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Eyes

Irritating to eyes.

#### Skin

Harmful by skin absorption. Contact causes skin irritation. Prolonged skin contact may defat the skin and produce dermatitis.

#### Inhalation

Harmful by inhalation. May cause irritation of respiratory tract. Inhalation of high vapour concentrations can cause CNS-depression and narcosis.

#### Ingestion

Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Aspiration hazard if swallowed – can enter lungs and cause damage. Ingestion is not an anticipated route of exposure for this material in industrial use.

#### Sensitization

No information available.

#### Repeated dose toxicity

In humans, styrene may cause a transient decrease in colour discrimination and effects on hearing. Repeated or prolonged exposure may cause skin irritation and dermatitis, due to defatting properties of the product. May cause damage to the kidneys, liver, eyes, brain, respiratory system, central nervous system through prolonged or repeated exposure if inhaled.

#### Mutagenic effects

Styrene has given mixed positive and negative results in a number of mutagenicity tests. Styrene was not mutagenic without metabolic activation but gave negative and positive mutagenic results with metabolic activation.

#### Carcinogenicity

##### Styrene

**ACGIH** Group A4 – Not classifiable as a human carcinogen.

**IARC** Group 2B – Possibly carcinogenic to humans.

**NTP** Reasonably anticipated to be human carcinogen.

##### Cobalt Compounds

**IARC** Group 2B – Possibly carcinogenic to humans.

#### Legend

*ACGIH – American Conference of Governmental Industrial Hygienists*

*IARC – International Agency for Research on Cancer*

*NTP – National Toxicology Program*



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<b>Reproductive Toxicity</b>	No information available.
<b>Neurological Effects</b>	No information available.
<b>STOT – single exposure</b>	No information available.
<b>STOT – repeated exposure</b>	No information available.
<b>Target organ(s)</b>	Liver, Kidney, Central Nervous System (CNS), Respiratory System.
<b>Aspiration Hazard</b>	No information available.

**Numerical measures of toxicity – Product Information**

**Unknown acute toxicity**                      55.1% of the mixture consists of ingredient(s) of unknown toxicity.

**The following values are calculated based on chapter 3.1 of the GHS document.**

<b>ATEmix (oral)</b>	5094 mg/kg
<b>ATEmix (dermal)</b>	2038 mg/kg
<b>ATEmix (inhalation-vapour)</b>	12 mg/L

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Styrene**

Log Kow	2.95
Bioconcentration factor (BCF)	74
Algae	EC50 = 1.4 mg/L (Pseudokirchneriella subcapitata) (72h) EC50 0.46 – 4.3 mg/L (Pseudokirchneriella subcapitata) (72h)
Fish	LC50 3.24 – 4.99 mg/L (Pimephales promelas) (96h) flow-through LC50 19.03 – 33.53 mg/L (Lepomis macrochirus) (96h) static LC50 6.75 – 14.5 mg/L (Pimephales promelas) (96h) static LC50 58.75 – 95.32 mg/L (Poecilia reticulata) (96h) static
Water Flea	EC50 3.3 – 7.4 mg/L (48h)

**Cobalt compounds**

Algae	EC50 = 0.639 mg/L
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**Unknown Aquatic Toxicity**

55.4% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

**Persistence/Degradability**                      No Information available.

**Bioaccumulation**                                      No information available.

**Other adverse effects**                                No information available.

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### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

#### **Disposal Considerations**

Hazardous waste. Can be incinerated, when in compliance with local regulations.

#### **Contaminated Packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

#### **US EPA Waste Number**

D001 (IGNITABLE): When discarded in its purchased form, this material would be regulated under 40 CFR 261.21 as EPA Hazardous Waste Number D001 based on the characteristic of ignitability.

### 14. TRANSPORT INFORMATION

#### DOT

<b>UN-No</b>	UN1866
<b>Proper Shipping Name</b>	RESIN SOLUTION
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>NAERG:</b>	127

#### TDG

<b>UN-No</b>	UN1866
<b>Proper Shipping Name</b>	RESIN SOLUTION
<b>Hazard Class</b>	3
<b>Packing Group</b>	PG III
<b>NAERG:</b>	127

#### MEX

<b>UN-No</b>	UN1866
<b>Proper Shipping Name</b>	RESIN SOLUTION
<b>Hazard Class</b>	3
<b>Packing Group</b>	PG III
<b>NAERG:</b>	127

#### IATA

<b>UN-No</b>	UN1866
<b>Proper Shipping Name</b>	RESIN SOLUTION
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>NAERG:</b>	127

#### IMDG/IMO

<b>UN-No</b>	UN1866
<b>Proper Shipping Name</b>	RESIN SOLUTION
<b>Hazard Class</b>	CLASS 3
<b>Packing Group</b>	PG III

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EmS-No

F-E, S-E

### 15. REGULATORY INFORMATION

#### International Inventories

**TSCA Inventory Status:**

All components of this material are listed on the US Toxic Substances Control Act (TSCA) Inventory

**Canadian Inventory Status:**

All components of this material are listed on the Canadian Domestic Substances List (DSL).

**Australian Inventory Status:**

This product contains only chemicals which are currently listed on the Australian Inventory of Chemical Substances.

**Korean Inventory Status:**

This product contains only chemicals where are currently listed on the Korean Chemical Substances List.

**Philippine Inventory:**

This product contains only chemicals that are currently listed on the Philippine Inventory of Chemicals and Chemical Substances.

**Japan ENCS:**

This product contains only chemicals that are currently listed on the Japanese Inventory of Existing and New Chemical Substances.

**Chinese IECS:**

This product contains only chemicals that are currently listed on the Chinese Inventory of Existing Chemical Substances.

**New Zealand Inventory:**

This product contains only chemicals which are currently listed on the New Zealand Inventory of Chemicals.

#### US Federal Regulations

**TSCA 12(b) – Export Notification:**

This material does not contain any components that are subject to the US Toxic Substances Control Act (TSCA) Section 12(b) Export Notification requirements.

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Component	CAS No	Weight-%	SARA 313 Status
Styrene	100-42-5	45.0	Listed
Cobalt compounds		<0.3	Listed

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### SARA 311/312 Hazardous Categorization

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	Yes
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	Yes

### Clean Water Act

This product contains the following listed substances:

Component	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Styrene 100-42-5	1000 lb			Listed

### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

Component	CAS No	Weight-%	HAPS data
Styrene	100-42-5	45.0	
Cobalt compounds		<0.3	Listed

### CERCLA

This product contains the following reportable quantities:

Component	40 CFR 302.4 RQ	40 CFR 355 EHS TPQs
Styrene	1000 lb 454 kg	

### Chemical Weapons Convention (CWC)

This product does not contain any listed substances.

### State Regulations

#### California Proposition 65

WARNING: This material contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. The California Safe Drinking Water and Toxic Enforcement Act of 1986 requires that clear and reasonable warning be given prior to exposing any person to this chemical.

#### Canada

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

### 16. OTHER INFORMATION

**NFPA Rating**

**Health 2**

**Flammability 3**

**Instability 1**

**Reference:**

Reichhold MSDS on Hydrex® 100 33350-00 19 February 2015

**Compiled by:**

Aurora Glass Fibre (NZ) Ltd

**Preparation Date:**

26 March 2019



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