

Regina Glass Fire Retardant Material

Version 4.1.1.1

Chemwatch Material Safety Data Sheet (Conforms to Reg. (EC) No 1907/2006, Reg. (EC) No 1272/2008 and their amendments)

CHEMWATCH SDS

Chemwatch5134-63

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SAFETY DATA SHEET

SECTION 1: Identification of the substance / mixture and of the company / undertaking

1.1. Product Identifier

Product name:	Regina Glass Fire Retardant Material
Chemical product name:	No data available
Synonyms:	"REGINA GLASS FIRE RETARDANT MATERIAL", Including: "** FireShield", "** FAST Fireshield", "** FireShield HT", "** FireShield W"
Proper shipping name:	No data available
Chemical formula:	No data available
Other means of identification:	No data available
Index number:	No data available
ID number:	No data available
CAS number:	No data available
REACH registration number:	No data available
EC number:	Not Available

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

Relevant identified uses:	Suitable for use with epoxy resins, polyester resins and vinyl ester resins to create GRP parts with specific fire retardant properties.
Uses advised against:	No data available

1.3. Details of the supplier of the safety data sheet

Registered company name:	Regina Glass Fibre Pty Ltd
Address:	Regina Street, Ballarat, VIC, 3350, AUS
Telephone:	+61 3 5339 2214
Fax:	+61 3 5338 1013
Email:	
Website:	

1.4. Emergency telephone number

Association / Organisation:	
Other emergency telephone numbers:	0418 547 358 after hours
Other emergency telephone numbers:	0418 547 358 (after hrs)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

DSD classification:	In case of mixtures, classification has been prepared by following DFD (Directive 1999/45/EC) or CLP (Regulation (EC) No 1272/2008) regulations
DSD classification (additional):	No data available
DPD classification:	None under normal operating conditions.
CLP classification:	According to CLP no hazard category has been assigned
CLP classification (additional):	No data available

2.2. Label elements

CLP label elements	No data available
Signal word:	
Hazard statement(s):	Determined by Chemwatch using CLP criteria
Additional Statement(s):	No data available
Supplementary statement(s):	No data available
Precautionary statement(s):	No data available

DSD / DPD label elements

Relevant risk statements are found in section 2.1

Indication(s) of danger:	No data available
Safety advice:	None under normal operating conditions.

2.3. Other hazards

PBT/vPvB criteria No data available

SECTION 3: Composition / information on ingredients

3.1. Substances

See 'Composition on ingredients' in section 3.2

3.2. Mixtures

1. CAS No 2. EC No 3. Index No 4. REACH No	%[weight]	Name	Classification according to Directive 1999/45/EC [DPD]	Classification according to (EC) No 1272/2008 [CLP]
1. 2. No data available 3. No data available 4.		ingredients determined not to be or at levels determined		
1. 2. No data available 3. No data available 4.	100	not to be hazardous		

SECTION 4: First aid measures

4.1. Description of first aid measures

General: No data available

Ingestion:

- Not considered a normal route of entry.
- Immediately give a glass of water.
- First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Eye Contact:

If this product comes in contact with the eyes:

- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Seek medical attention without delay; if pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact:

If skin or hair contact occurs:

- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

Inhalation:

- If dust is inhaled, remove from contaminated area.
- Encourage patient to blow nose to ensure clear breathing passages.
- Ask patient to rinse mouth with water but to not drink water.
- Seek immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Inhaled: Not normally a hazard due to physical form of product.
Generated dust may be discomforting

Ingestion: Not normally a hazard due to the physical form of product. The material is a physical irritant to the gastro-intestinal tract

Skin Contact: Not normally a hazard due to physical form of product.
Not considered to cause discomfort through normal use.

Eye: Not normally a hazard due to physical form of product.
Generated dust may be discomforting

Chronic: Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility: None known

5.3. Advice for firefighters

Fire Fighting:

- Use water delivered as a fine spray to control fire and cool adjacent area.

- **Do not** approach containers suspected to be hot.
- Cool fire exposed containers with water spray from a protected location.
- If safe to do so, remove containers from path of fire.
- Equipment should be thoroughly decontaminated after use.

Fire/Explosion Hazard:

- Non combustible.
- Not considered a significant fire risk, however containers may burn.

Decomposition may produce toxic fumes of:
carbon dioxide (CO₂)
nitrogen oxides (NO_x)

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal Protective Equipment:

Glasses:

Not normally required.

Gloves:

When handling larger quantities:

Minor Spills:

- Clean up all spills immediately.
- Secure load if safe to do so.
- Bundle/collect recoverable product.
- Collect remaining material in containers with covers for disposal.

Major Spills:

- Minor hazard.
- Clear area of personnel.
- Alert Fire Brigade and tell them location and nature of hazard.
- Wear physical protective gloves e.g. Leather.
- Contain spill/secure load if safe to do so.
- Bundle/collect recoverable product and label for recycling.
- Collect remaining product and place in appropriate containers for disposal.
- Clean up/sweep up area.
- Water may be required.

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

No data available

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the MSDS

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safe handling

- Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- When handling **DO NOT eat, drink or smoke.**
- Always wash hands with soap and water after handling.
- Avoid physical damage to containers.
- Use good occupational work practice.
- Observe manufacturer's storage and handling recommendations contained within this MSDS.

Fire and explosion protection

See section 5

Other information

- Keep dry.
- Store under cover.
- Protect containers against physical damage.
- Observe manufacturer's storage and handling recommendations contained within this MSDS.

Not applicable

7.2. Conditions for safe storage, including any incompatibilities

Suitable container:

No restriction on the type of containers. Packing as recommended by manufacturer. Check all material is clearly labelled.

Storage incompatibility:

- Avoid reaction with oxidising agents

strong acids

Package Material Incompatibilities:

No data available

7.3. Specific end use(s)

See section 1.2

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Derived No Effect Level (DNEL)

Exposure Pattern	Workers	General Population	Exposure Pattern	Workers	General Population
Long term - dermal, systemic effects	No data available	No data available	Short term - dermal, systemic effects	No data available	No data available
Long term - inhalation, systemic effects	No data available	No data available	Short term - inhalation, systemic effects	No data available	No data available
Long term - oral, systemic effects	No data available	No data available	Short term - oral, systemic effects	No data available	No data available
Long term - dermal, local effects	No data available	No data available	Short term - dermal, local effects	No data available	No data available
Long term - inhalation, local effects	No data available	No data available	Short term - inhalation, local effects	No data available	No data available

Occupational Exposure Limits (OEL)

No data available
No data available

REGINA GLASS FIRE RETARDANT MATERIAL: None assigned.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

General exhaust is adequate under normal operating conditions.
If risk of overexposure exists, wear SAA approved respirator.

8.2.2. Personal protection

No data available

Eye and face protection:	No special equipment for minor exposure i.e. when handling small quantities. <ul style="list-style-type: none">● OTHERWISE● Safety glasses with side shields.● Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection:	See Hand protection: below
Hand protection:	No special equipment needed when handling small quantities. OTHERWISE Wear physical protective gloves, eg. leather. Wear safety footwear.
Body protection:	See Other protection: below
Other protection:	No special equipment needed when handling small quantities OTHERWISE <ul style="list-style-type: none">● Overalls● Eyewash unit.
Respiratory protection:	
Thermal hazards:	No data available
Recommended material(s):	Glove selection is based on a modified presentation of the: "Forsberg Clothing Performance Index" . The effect(s) of the following substance(s) are taken into account in the computer-generated selection: Material CPI * CPI - Chemwatch Performance Index A: Best Selection B: Satisfactory; may degrade after 4 hours continuous immersion C: Poor to Dangerous Choice for other than short term immersion NOTE As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. - * Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

8.2.3. Environmental exposure controls

See section 12

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Flexible white substrate supplied in the form of a roll; insoluble in water.
Odour	No data available
Odour threshold	No data available
Taste	No data available
pH (1% solution)	Not Applicable
pH (as supplied)	Not Applicable
Melting point / freezing point (°C)	Not Available
Initial boiling point and boiling range (°C)	Not Applicable
Flash Point (°C)	Not Applicable

Flammability	No data available
Vapour Pressure (kPa)	Not Applicable
Vapour density	Not Applicable
Relative Density (Water = 1)	Not Applicable
Solubility in water (g/L)	Immiscible
Partition coefficient: n-octanol / water	No data available
Auto-ignition temperature (°C)	Not Applicable
Critical Temperature	Not Available
Viscosity	Not Applicable
Explosive properties	No data available
Oxidising properties	No data available
Physical State	Manufactured
Upper Explosive Limit (%)	Not Applicable
Lower Explosive Limit (%)	Not Applicable
Surface Tension	No data available
Volatile Component (%vol)	Not Applicable
Gas group	No data available
Molecular weight (g/mol)	Not Applicable
Evaporation Rate	Not Applicable
IUCLID Remarks	No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity	See section 7.2
10.2. Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Mutagenicity:	No data available
Reproductive Toxicity:	No data available
Carcinogenicity:	No data available
STOT - single exposure:	No data available

REGINA GLASS FIRE RETARDANT MATERIAL:

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances
Not available.

SECTION 12: Ecological information

12.1. Toxicity

Fish:	No data available
Daphnia Magna:	No data available
Algae:	No data available
Toxic to aquatic micro-organisms:	No data available

REGINA GLASS FIRE RETARDANT MATERIAL:

DO NOT discharge into sewer or waterways.

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Regina Glass Fire Retardant Material	No Data Available	No Data Available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

	P	B	T
Relevant available data	No data available	No data available	No data available
PBT and vPvB Criteria fulfilled?	No data available	No data available	No data available

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product / Packaging disposal:

- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- Bury residue in an authorised landfill.
- Recycle containers if possible, or dispose of in an authorised landfill.

Waste treatment options: No data available

Sewage disposal options: No relevant data

Other disposal recommendations: No data available

SECTION 14: Transport information

Labels Required: No data available

Land transport (ADR/ RID/ GGVSE)

No data available

14.1. UN number	None	14.4. Packing group	No data available										
14.2. UN proper shipping name	No data available	14.5. Environmental hazard	No relevant data										
14.3. Transport hazard class(es)	No data available	14.6. Special precautions for user	<table border="1"> <tr> <td>Hazard identification (Kemler)</td> <td>No data available</td> </tr> <tr> <td>Classification Code</td> <td>No data available</td> </tr> <tr> <td>Hazard Label</td> <td>No data available</td> </tr> <tr> <td>Special provisions</td> <td>No data available</td> </tr> <tr> <td>Add limited quantity</td> <td>No data available</td> </tr> </table>	Hazard identification (Kemler)	No data available	Classification Code	No data available	Hazard Label	No data available	Special provisions	No data available	Add limited quantity	No data available
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Classification Code	No data available												
Hazard Label	No data available												
Special provisions	No data available												
Add limited quantity	No data available												

No data available

Air transport (ICAO-IATA / DGR)

No data available

14.1. UN number	None	14.4. Packing group	No data available																				
14.2. UN proper shipping name	No data available	14.5. Environmental hazard	No relevant data																				
14.3. Transport hazard class(es)	<table border="1"> <tr> <td>ICAO/IATA Class:</td> <td>No data available</td> </tr> <tr> <td>ICAO/IATA Subrisk:</td> <td>No data available</td> </tr> <tr> <td>ERG Code</td> <td>No data available</td> </tr> </table>	ICAO/IATA Class:	No data available	ICAO/IATA Subrisk:	No data available	ERG Code	No data available	14.6. Special precautions for user	<table border="1"> <tr> <td>Special provisions</td> <td>No data available</td> </tr> <tr> <td>Cargo Only Packing Instructions</td> <td>No data available</td> </tr> <tr> <td>Cargo Only Maximum Qty / Pack</td> <td>No data available</td> </tr> <tr> <td>Passenger and Cargo Packing Instructions</td> <td>No data available</td> </tr> <tr> <td>Passenger and Cargo Maximum Qty / Pack</td> <td>No data available</td> </tr> <tr> <td>Passenger and Cargo Limited Quantity Packing Instructions</td> <td>No data available</td> </tr> <tr> <td>Passenger and Cargo Maximum Qty / Pack</td> <td>No data available</td> </tr> </table>	Special provisions	No data available	Cargo Only Packing Instructions	No data available	Cargo Only Maximum Qty / Pack	No data available	Passenger and Cargo Packing Instructions	No data available	Passenger and Cargo Maximum Qty / Pack	No data available	Passenger and Cargo Limited Quantity Packing Instructions	No data available	Passenger and Cargo Maximum Qty / Pack	No data available
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ERG Code	No data available																						
Special provisions	No data available																						
Cargo Only Packing Instructions	No data available																						
Cargo Only Maximum Qty / Pack	No data available																						
Passenger and Cargo Packing Instructions	No data available																						
Passenger and Cargo Maximum Qty / Pack	No data available																						
Passenger and Cargo Limited Quantity Packing Instructions	No data available																						
Passenger and Cargo Maximum Qty / Pack	No data available																						

No data available

Sea transport (IMDG-Code / GGVSee)

No data available

14.1. UN number	None	14.4. Packing group	No data available									
14.2. UN proper shipping name	No data available	14.5. Environmental hazard	No relevant data									
14.3. Transport hazard class(es)	<table border="1"> <tr> <td>No data available</td> <td>IMDG Subrisk</td> <td>No data available</td> </tr> </table>	No data available	IMDG Subrisk	No data available	14.6. Special precautions for user	<table border="1"> <tr> <td>EVS Number</td> <td>No data available</td> </tr> <tr> <td>Special provisions</td> <td>No data available</td> </tr> <tr> <td>Limited Quantities</td> <td>No data available</td> </tr> </table>	EVS Number	No data available	Special provisions	No data available	Limited Quantities	No data available
No data available	IMDG Subrisk	No data available										
EVS Number	No data available											
Special provisions	No data available											
Limited Quantities	No data available											

No data available

Inland waterways transport (ADNR/ River Rhine)

No data available

14.1. UN number	None	14.4. Packing group	No data available											
14.2. UN proper shipping name	No data available	14.5. Environmental hazard	No relevant data											
14.3. Transport hazard class(es)	<table border="1"> <tr> <td>No data available</td> <td>ADNR Label</td> <td>No data available</td> </tr> </table>	No data available	ADNR Label	No data available	14.6. Special precautions for user	<table border="1"> <tr> <td>Classification code</td> <td>No data available</td> </tr> <tr> <td>Limited quantity</td> <td>No data available</td> </tr> <tr> <td>Equipment required</td> <td>No data available</td> </tr> <tr> <td>Fire cones number</td> <td>No data available</td> </tr> </table>	Classification code	No data available	Limited quantity	No data available	Equipment required	No data available	Fire cones number	No data available
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Classification code	No data available													
Limited quantity	No data available													
Equipment required	No data available													
Fire cones number	No data available													

14.7. Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

No data available

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

No data for Regina Glass Fire Retardant Material (CW: 5134-63)

This safety data sheet is in compliance with the following EU legislation and its adaptations – as far as applicable - : 67/548/EEC, 1999/45/EC, 98/24/EC, 92/85/EEC, 94/33/EC, 91/689/EEC, 1999/13/EC, Regulation (EU) No 453/2010, Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008, and their amendments as well as the following British legislation:

- The Control of Substances Hazardous to Health Regulations (COSHH) 2002
- COSHH Essentials
- The Management of Health and Safety at Work Regulations 1999

15.2. Chemical safety assessment

No data available

Annex VI

According to CLP no hazard category has been assigned

RISK

None under normal operating conditions.

SECTION 16: Other information

OTHER

- Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net/references

- The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

- For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 16 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

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Nbt applicable