


Product: GAK2000 (2 part) Resin

Safety data sheet. GAK2000 Resin (part 1)									
According to 1999/45/EC,2001/158/EC. 0178212 11.00 IE 01.07.2003 MSDS_IE									
Section 1. Identification of the substance/mixture & of the Company/undertaking									
<p><u>1.1. Product identifier.</u> Product Name: GAK2000 Resin (use with hardener) Product no. GAK2000 Resin</p> <p><u>1.2. Relevant identified uses of the substance or mixture and uses advised against.</u> Identified uses.</p> <p><u>1.3. Details of the supplier of the safety data sheet.</u> Supplier.</p> <p><u>1.4. Emergency telephone number.</u> +44(0)1264 336396 between 8.30 - 4.30 Mon - Fri</p>									
Section 2. Composition/Details on Constituents									
<p>2.1 Classification of the substance or mixture. Acute Tox. 4. H302 Harmful if swallowed Skin irrit. 2. H315 Causes skin irritation. Eye irrit. 2A. H319 Caused serious eye irritation. Skin Sens. 1A. H317 May cause an allergic skin reaction. 2.2 Label elements. GHS07</p> <div style="text-align: center;">  </div> <p><b>Signal word.</b> Harmful: Irritant. <b>Hazard statements:</b> Harmful if swallowed, Irritating to skin, Risk of serious damage to eyes. May cause sensitisation by skin contact. Precautionary statements/Safety phrases: Keep away from food, drink and animal feeding stuffs. When using do not eat or drink Avoid contact with skin or eyes. Wear suitable gloves and eye/face protection. In case of insufficient ventilation wear suitable respiratory equipment. If swallowed, do not induce vomiting: seek medical advice immediately and show container label. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident by inhalation: remove casualty to fresh air and keep at rest. After contact with skin, wash immediately with plenty of soap and water. Do not empty into drains. Keep container tightly closed.</p> <p><u>2.3. Other hazards</u> <u>HMIS-ratings (scale 0-4)</u></p> <table border="1"> <tbody> <tr> <td>HEALTH</td> <td>2</td> </tr> <tr> <td>FIRE</td> <td>1</td> </tr> <tr> <td>REACTIVITY</td> <td>0</td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>		HEALTH	2	FIRE	1	REACTIVITY	0		
HEALTH	2								
FIRE	1								
REACTIVITY	0								

Product: GAK2000 (2 part) Resin



NEPA ratings (scale 0-4). Health = 2. Fire = 1. Reactivity = 0.

Other Hazards:

PBT: N/a

vPvB: N/a

Section 3. Composition/information on ingredients

3.2 Mixtures

Description: Non-hazardous materials will not be listed separately. When encapsulated in a liquid mixture, powders are not expected to pose a health hazard when processed under normal conditions of use.

Components:		
28064-14-4	Modified epoxy resin	25- <50%
1317-61-9	Black Iron oxide	2.5 - <10%
1309-64-4	Antimony Trioxide	2.5 - <10%
	Proprietary	
64742-95-6	Solvent naphtha (petroleum), light aroma	0.1 - <1%
64742-82-1	1Naphtha (petroleum), hydrodesulfurized heavy	0.1 - <1%

Section 4. First Aid Measures

4.1. Description of first aid measures.

**Eye contact:** Rinse opened eye for several minutes under running water. Get medical attention.

**Skin contact:** Immediately wash with soap and water and rinse thoroughly.

**Inhalation:** Supply fresh air and call for a doctor.

Move to a place with fresh air and keep at rest. If unconscious call medical assistance immediately.

**Ingestion:** Do not induce vomiting. Get medical attention.

4.2 Most important symptoms and effects both acute and delayed.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after.

No further relevant information available.

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

No further relevant information available.

Section 5. Fire Fighting Measures.

5.1. Extinguishing media.

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire fighting measures that suit the environment.

5.2 Special hazards arising from the substance or mixture. No further relevant information available.

5.3 Advice for fire fighters. Wear self-contained breathing apparatus, if necessary. Wear personal protective equipment.

Section 6. Accidental Release Measures.

Product: GAK2000 (2 part) Resin

6.1 personal precautions, protective equipment and emergency procedures. Not required.

6.2. Environmental precautions. Inform respective authorities in case of seepage into waterways or sewage system. Do not allow to enter sewers/surface or ground water.

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.

6.4. Reference to other sections. Section 7, 8,13

Section . Handling & Storage.

7.1. Precautions for safe handling. Ensure good ventilation/exhaustion at the workplace.

No special measures against explosion or fires.

7.2. Conditions for safe storage, including any incompatibilities. Keep is sealed containers. Keep containers at room temperature.

Recommended: keep in a cool dry condition atmosphere.

7.3. Specific end use(s): No relevant information available.

Section 8. Exposure Controls/ Personal Protection

8.1. Control parameters.

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls



Protective equipment:

Process conditions: None supplied

Engineering measures: None supplied

Respiratory equipment: Use suitable breathing equipment if insufficient ventilation.

Hand protection: Suitable nitrile gloves

Eye protection: Tightly sealed goggles

Other protection: Avoid contact with skin.

Hygiene measures: No food or drink in the area. Wash hands before breaks and at the end of work. Immediately remove all soiled and contaminated clothing.

Section 9. Physical and Chemical Properties.

9.1. Information on basic physical and chemical properties.

**Appearance**

Form: Viscous

Colour: Black

Odour: Slight

**pH Value:** Not determined

**Change in condition**

Melting point/range: N/a. Boiling point/range: Na

**Flash point:** 146°C (294°F)

**Flammability (solid, gaseous):** N/a

**Auto igniting:** No self-igniting.

**Danger of explosion:** Does not present an explosion hazard.

**Explosion limits – Upper/Lower:** N/a

**Vapour pressure:** Not determined

**Density at 20°C (68°F):** 2 g/cm<sup>3</sup> (16.69 lbs/gal)

**Solubility in/miscibility with water:** Insoluble

**Solvent content: Organic solvents:** 0.4%

9.2. Other information.

No further information available.

Product: GAK2000 (2 part) Resin

Section 10. Stability and Reactivity.

10.1. Reactivity:

10.2. Chemical stability: Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions: None known

10.4. Conditions to avoid: No decomposition if used according to specifications.

10.5. Incompatible materials: No further relevant information available.

Materials to avoid: None listed.

10.6. Hazardous decomposition products:

No dangerous decomposition products known.

Section 11. Toxicological Information.

11.1 Information on toxicological effects:

Toxicological information.

LD/LC50 values that are relevant for classification:		
1309-64-4 Antimony Trioxide		
Oral	LD50	>2000 mg/kg (Rat)
64742-95-6 Solvent naphtha (petroleum), light aroma		
Oral	LD50	>6800 mg/kg (Rat)
Dermal LD50	LD50	>3400 mg/kg (Rab)
Inhalative	LC50/4h	>10.2 mg/l (Rat)

Skin contact: Irritating to skin.

Eye contact: Strong irritant with the danger of severe eye injury.

Sensitization: Possible through skin contact.

Carcinogenic categories: IARC (International Agency for research on cancer)		
1309-64-4	Antimony Trioxide	2B
7439-92-1	Lead	2B
7440-38-2	Arsenic	1
NTP (National toxicology program)		
7439-92-1	Lead	R
7440-38-2	Arsenic	K
OSHA-Ca (Occupational safety & health administration)		
7440-38-2	Arsenic	

12. Ecological Information.

12.1 Toxicity

Toxicity: Aquatic toxicity:	
1309-64-4-Antimony Trioxide	
EC50/48 h	>1000mg/l (daphnia magna)
EC50/72 h	67 mg/l (Algae)
LC50/96 h	>1000mg.l (Zebra fish)

**Persistence and degradability:** No further information available.

**Bio-accumulative potential:** No information available.

**Mobility in soil:** No information available.

12.2 Additional ecological information:

**General notes:** Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Product: GAK2000 (2 part) Resin

12.3 Results of PBT and vPvB assessment.

PBT. vPvB: N/a

12.4 Other adverse effects: None known

13. Disposal Considerations.

13.1 Waste treatment methods.

**Recommendation:** Must not be disposed of with household waste. Do not allow product to reach sewage system.

**Disposal of packaging:** Dispose of in accordance with federal, state local and international regulations.

14. Transport Information.

U.N. Number	Not regulated for transport
Air transport IATA	Not regulated for transport
Class	Not regulated for transport
Packaging group	Not regulated for transport
Sea IMO	
Road ADR/Rail (RID)	Not regulated for transport
Transport in bulk Annex II of MARPOL73/78 & the IBC code	N/a
UN "model regulation"	-

15. Regulatory Information.

Symbols:	Harmful, Irritant
Risk phrases:	R38, Irritating to skin. May cause sensitisation by skin contact. R65, Harmful if swallowed. Risk of serious damage to eyes.
Safety phrases:	S23, Do not breathe vapour. S28, After contact with skin wash immediately with plenty of soap and water
Water hazard:	S61, Avoid release into drains. S62, If swallowed do not induce vomiting. Seek Medical advice immediately and show this container or label.

16. Other Information.

Product: GAK2000 (2 part) Resin

16. Other information:

This product Safety data sheet was prepared in compliance with Commission Directive 91/155/EEC, 67/548/EEC and 1999/45/EC as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

This product should only be used as stated in Gauge Factors Ltd Literature. It is the responsibility of the persons in receipt of this Safety; Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in to contact with the product, If the recipient subsequently produces a formulation containing the Gauge Factors Ltd product, it is the recipients sole responsibility to ensure the transfer of all relevant information from the Gauge Factors Ltd Product Safety Data Sheet to their own product Safety Data Sheet in compliance with Commission directive 1999/45/EC.

All sections of this Safety Data Sheet have been amended since the previous version.

All information and instructions provided in the Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Gauge Factors Ltd shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

N/k = not known  
N/a = not applicable  
N/d = not determined

**Disclaimer:** The information provided in this Safety data sheet is consistent with the information in the Chemical safety report, as far as this information was available at the time of compilation.

The information of this safety data sheet is based on the present state of our knowledge and on current EC and national laws, as the users' working conditions are beyond our knowledge and control. The user is always responsible for ensuring that the requirements of relevant legislation are complied with the information contained in this Safety data sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information provided relates only to the specific product designated and may not be valid for such product used in combination with any other product. The product must not be used for any purposes other than those specified without first obtaining written handling instructions.