



Product: GAK1050 Hardener (use with GAK1050 Resin)

Safety data sheet.							
GAK1050 Hardener Part 2							
Section 1. Identification of the substance/mixture & of the Company/undertaking							
<p>1.1. Product identifier. Product Name GAK 1050 Hardener</p> <p>1.2. Relevant identified uses of the substance or mixture and uses advised against. Identified uses.</p> <p>1.3. Details of the supplier of the safety data sheet. Supplier. Gauge Factors Ltd, 3 Towergate Ind Park, Colebrook Way, Weyhill Road, Andover, Hants SP10-3BB</p> <p>1.4. Emergency telephone number. +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: 1999/45/EC: Xi;R38-41-43 N; Symbols: Xi; irritant. .</p> <p>2.1.1 Main hazards: Irritating to skin. Risk of serious damage to eyes. May cause sensitisation by skin contact.</p> <p>2.1.2 Classification: EC 1272/2008: Skin Corr. 1B; H314; Siin Sens. 1: H317;</p> <p>2.2 Label elements: Label in accordance with.....</p> <div style="text-align: center;">   </div> <p>Signal word. Danger</p> <p>Hazard statements: Skin corr. 1B: H314 - Causes severe skin burns and eye damage. Skin Sens. 1: H317 - may cause an allergic skin reaction.</p> <p>Precautionary statements: prevention P280 - wear protective gloves/protective clothing/eye protection/face protection.</p> <p>Precautionary statement: response. P301+P330+P331 - IF SWALLOWED: rinse mouth. DO NOT induce vomiting P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+338 - IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse. Precautionary statement disposal: P501 - Dispose of contents/container too</p>							
Section 3. Composition/information on ingredients							
3.2 Mixtures							
67/548/EEC / 1999/45/EC							
Chemical name	Index no	CAS No.	EC No.	REACH registration no.	Conc. (%W/W)	Classification	M Factor
Fatty acids C18 unsaturated		68911-25-1	215-609-9		40-60%	Xi; R38-41-43	
3,3'Oxybis (ethyleneoxy)bis (propylamine)		4246-51-9	224-207-2		5-10%	C; R34 R52/53	
Kaolin		1332-58-7	310-194-1		40-60%		
Toluene	601-021-00-3	108-88-3	203-625-9		0.5-1%	F; R11 Repr.Cat. 3; R63 Xn; R48/20-65 Xi; R38, R67	



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EC 1272/2008							
Fatty acids C18 unsaturated		68911-25-1			40-60%	Skin irrit.2: H315; Skin Sens. 1: H317; Eye Dam. 1: H318	
Kaolin		1332-58-7	310-194-1		40-60%		
3,3'Oxybis (ethyleneoxy)bis (propylamine)		4246-51-9	224-207-2		5-10%	Skin Corr. 1B: H314; Skin Sens. 1: H317	
Section 4. First Aid Measures							
4.1. Description of first aid measures. Eye contact: Bathe Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Skin contact: Irritating to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist. Inhalation : n/a. Ingestion: Rinse mouth thoroughly. Seek medical attention if irritation or symptoms persist.							
Section 5. Fire Fighting Measures.							
5.1. Extinguishing media: Carbon oxides 5.2 Special hazards arising from the substance or mixture: Burning produces irritating, toxic and obnoxious fumes. 5.3 Advice for fire fighters: Wear suitable respiratory equipment when necessary.							
Section 6. Accidental Release Measures.							
6.1 personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation of the working areas. Wear suitable protective clothing. 6.2. Environmental precautions: Do not allow product to enter drains. Prevent further spillage if safe. 6.3. Methods and material for containment and cleaning up: Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.							
Section 7 . Handling & Storage.							
7.1. Precautions for safe handling: Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best manual handling considerations when handling carrying and dispensing. 7.2. Conditions for safe storage, including any incompatibilities: Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.							
Section 8. Exposure Controls/ Personal Protection							



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8.1. Control parameters.

Toluene	WEL 8-hr limit ppm: 50 WEL 15min limit ppm: 100 Inhalable dust WEL 8-hr limit mg/m3 total: - Respirable dust WEL 8-hr limit mg/m3 total: -	WEL 8 -hr limit mg/m3: 191 WEL 15 min limit mg/m3: 384 Inhalable dust WEL 15 min limit mg/m3 total - Respirable WEL 15 min limit mg/m3 total -
Kaolin	WEL 8-hr limit ppm: - WEL 15min limit ppm: - Inhalable dust WEL 8-hr limit mg/m3 total: - Respirable dust WEL 8-hr limit mg/m3 total: 2	WEL 8 -hr limit mg/m3: - WEL 15 min limit mg/m3: - Inhalable dust WEL 15 min limit mg/m3 total - Respirable WEL 15 min limit mg/m3 total -

8.2 Exposure controls

Protective equipment: Wear chemical protective clothing.
Engineering measures: Ensure adequate ventilation of the working area.
Respiratory equipment: -
Hand/skin protection: Wear suitable gloves.
Eye/face protection: Approved safety glasses/goggles.
Other protection: -
hygiene measures: -

Section 9. Physical and Chemical Properties.

9.1. Information on basic physical and chemical properties.

Appearance: :Liquid
Colour: Grey
Odour: Characteristic

9.2. Other information.

Initial boiling point: -
Flash point: -
Relative density: -
Water solubility: -

Section 10. Stability and Reactivity.

10.1. Reactivity: n/a
10.2. Chemical stability: Stable under normal conditions.
10.3. Possibility of hazardous reactions: n/a
10.4. conditions to avoid: n/a
10.5. incompatible materials: Strong acids. Strong oxidising agents.
10.6. Hazardous decomposition products: n/a

Section 11. Toxicological Information.

11.1 Information on toxicological effects.

Acute toxicity: May cause sensitisation by skin contact.
Skin corrosion/irritation: May cause severe irritation to skin
Serious eye damage/irritation: **CAUSES (SEVERE) EYE BURNS.**

12. Ecological Information.

12.6. Other adverse effects: None supplied.



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13. Disposal Considerations.

Disposal methods: Dispose of in compliance with all local and national regulations..

Disposal of packaging: -

14. Transport Information.

ADR/RID	This product is not classified as dangerous for carriage
IMDG	This product is not classified as dangerous for carriage
IATA	This product is not classified as dangerous for carriage
Further information	This product is not classified as dangerous for carriage

15. Regulatory Information.

Symbols:	
Risk phrases:	
Safety phrases:	
Water hazard:	

16. Other Information.

16.1 Other information:

Revision: this document differs from the previous version in the following areas:

- 2-2.1.2 Classification - EC 1272/2008
- 2- Hazard pictograms
- 2- Signal Word
- 2- Precautionary statement: Prevention. Response. Storage. Disposal
- 4- Inhalation
- 4- Ingestion
- 10-10.5 Incompatible materials.
- 11- Skin corrosion/irritation.
- 11 - Serious eye damage/irritation

Text of risk phrases in section 3.

- R11 - Highly flammable
- R34 - Causes burns
- R38 - irritating to eyes and skin.
- R41 - Risk of serious damage to eyes
- R43 - May cause sensitisation by skin contacts.
- R48/20 - Harmful: Danger of serious damage to health by prolonged exposure through inhalation.
- R52/53 - Harmful to aquatic organisms. may cause long-term adverse effects in the aquatic environment.
- R63 - Possible risk of harm to the unborn child.
- R65 - Harmful: may cause lung damage if swallowed.
- R67 - Vapours may cause drowsiness and dizziness.

Text of hazard statements in section 3.

- Skin irrit. 2: H315 - Causes skin irritation.
- Skin sens. 1: H317 - May cause an allergic skin reaction.
- Eye irrit. 2: H318 - Causes serious eye damage.
- Skin corr 1B : H314 - Causes severe skin burns and eye damage.

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The information supplied in this safety data sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used combination with any other materials or in any other process.