

Product: GAK3

Safety data sheet.

Product: GAK3

Section 1. Identification of the substance/mixture & of the Company/undertaking

1.1. Product identifier.

Product Name: High performance acrylic conformal coating
Product no.GAK3

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

Identified uses. Industrial use. Professional use. Appliance protection. Tacking

1.3. Details of the supplier of the safety data sheet.

Supplier. Gauge Factors Ltd, 3 Towergate Ind Pk., Colebrook Way, Andover, Hants. SP10 3BB UK

1.4. Emergency telephone number.

+44(0)1264 336396 between 8.30 - 4.30 Mon – Fr. Not 24 hours

Email: sales@gaugefactors.com

Section 2. Composition/Details on Constituents

2.1 Classification of the substance or mixture.

Physical hazards: Flam, Liq. 2-H225

Health hazards: Skin irrit. 2-H315 Irrit. 2-H319 Skin Sens. 1-H317 Repr. 2-H361d STOT SE 3-H336 STOT RE 2-H373.

Environmental hazards: Not classified.

Classification (67/548/EEC or 1999/45/EC): Xn;R48/20. Repr. CAT.3;R63. Si;R36/38. R43. F;R11. R67.

Physicochemical: The product is highly flammable. Vapours may form explosive mixtures with air. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers.

2.2 Label elements.



Signal Word: Danger

Hazard statements:

H225 Highly flammable liquid and vapour

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H316d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe vapour/spray.

P280 Wear protective gloves/protective clothing/ eye protection/face protection.

P303+P361+ P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P353+P336 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P312 Call A POISON CENTER/doctor if you feel unwell.

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P501 Dispose of contents/container in accordance with national regulations.

Contains: TOLUENE, BUTANONE, 2-OCTYL-2H-ISOTHIAZOL-3-ONE

Supplementary precautionary statements:

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash contaminated skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB

Section 3. Composition/information on ingredients

3.2 Mixtures

TOLUENE		
CAS number: 108-88-3	EC number: 23-625-9	26530-60%
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam.Liq. 2-H225	F;R11 Repr. Cat. 3;R63 Xn; R48/20,R65 Xi;R38 R67	
Skin Irrit. 2-H315		
Repr. 2-H361d		
STOT SE 3 –H336		
STOT RE 2-H373		
Asp. Tox. 1-H304		
BUTANONE		
CAS number: 78-93-3	EC number 201-159-0	10-30%
		REACH registration No 01-2119457290-43
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq 2-H225	F;R11 Xi;R36 R66 R67	
Eye Irrit. 2-H319		
STOT SE 3-H336		
2-OCTYL-2H-ISOTHIAZOL-3-ONE		
CAS number: 1026530-20-1	EC number: 247-761-7	<1%
M factor (Acute) = 10	M factor (Chronic) = 1	
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 3-H311	T;R23/24 C;R34 Xn;R22 R43 N;R50/53	
Acute Tox. 3-H331		
Skin Corr. 1B-H314		
Eye Dam. 1-H318		
Skin Sens. 1-H317		
Aquatic acute 1-H400		
Aquatic chronic 1-H410		

Section 16 for R-phrases and hazard statements.

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Section 4. First Aid Measures

4.1. Description of first aid measures.

General information: Get medical attention immediately. Show this safety data sheet to the medical personnel.

Inhalation: Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.

Ingestion: Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

Skin contact: It is important to remove the substance from the skin immediately. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention if symptoms are severe or persist after washing.

Eye contact: Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.

Protection of first aiders: First aid personnel should wear appropriate protective equipment during any rescue. If it is suspected that volatile contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it from the affected person or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth.

4.2 Most important symptoms and effects both acute and delayed.

General information: See section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation: A single exposure may cause the following adverse effects; Headache, nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic effect.

Ingestion: May cause sensitisation or allergic reactions in sensitive individuals. May cause irritation.

Skin contact: May cause skin sensitisation or allergic reaction in sensitive individuals. Redness. Irritating to skin.

Eye contact: Irritating to eyes

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

Notes for the doctor: Treat symptomatically. May cause sensitisation or allergic reactions in sensitive individuals.

Section 5. Fire Fighting Measures.

5.1. Extinguishing media.

Suitable extinguishing media: The product is flammable. Extinguish with alcohol resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture.

Specific hazards: Containers can burst violently or explode when heated, due to excessive pressure build-up. Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive mixtures with air. Fire-water run-off in sewers may create fire or explosion hazard.

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Hazardous combustion products: Thermal decomposition or combustion products may include the following substances:
Harmful gasses or vapours.

5.3 Advice for firefighters.

Protective actions during fire fighting: Avoid breathing fire gasses or vapours. Evacuate area. Keep upwind to avoid inhalation of gasses, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area. If it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect operatives stopping the leak. Control run-off of water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighters clothing conforming to European standard EN469 (including helmets protective gloves and boots) will provide a basic level of protection for chemical incidents.

Section 6. Accidental Release Measures.

6.1 personal precautions, protective equipment and emergency procedures.

Personal precautions: No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in section 8. Follow precautions for safe handling described in the safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated. Avoid inhalation of dust and vapours. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes.

6.2. Environmental precautions.

Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air)

6.3. Methods and material for containment and cleaning up.

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces due risk of explosion. Approach the spillage from upwind.

6.4. Reference to other sections.

Refer to section 8 & section 13.

Section . Handling & Storage.

7.1. Precautions for safe handling.

Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities.

Store in cool, well ventilated area. Keep container tightly closed.

7.3. Specific end use(s)

No data available.

Section 8. Exposure Controls/ Personal Protection

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8.1. Control parameters.

Workplace exposure limits: No data available
 DNEL/PNEC: No data available.

8.2. Exposure controls



Protective equipment:
 Engineering measures: Ensure there is sufficient ventilation of the area
 Respiratory equipment: Respiratory protection not required.
 Hand protection: Nitrile gloves
 Eye protection: Safety glasses. Ensure eye bath is to hand
 Other protection: n/a
 Skin protection: Protective clothing.

Section 9. Physical and Chemical Properties.

9.1. Information on basic physical and chemical properties.

State	Liquid	Colour	Purple
Evaporation rate:	No data available	Oxidising:	No data available
Solubility in water:	High soluble	Viscosity:	Non-viscous
Boiling point/range °C:	100	Flammability limits %:	N/a
Flash point °C	N/a	Autoflammability °C:	N/a
Relative density:	1	VOC g/l:	No data available
Melting point/range °C:	No data available	Upper:	N/a
Part.coeff. n-ocanol/water:	No data available.	Vapour pressure:	No data available
pH:	12		

9.2. Other information.

No data available.

Section 10. Stability and Reactivity.

10.1. Reactivity.

Stable under recommended transport or storage conditions.

10.2. Chemical stability.

Stable under normal conditions.

10.3. Possibility of hazardous reactions.

Hazardous reactions will not occur under normal transport or storage conditions.
 Decomposition may occur on exposure to conditions or materials listed below,.

10.4. Conditions to avoid.

Heat.

10.5. Incompatible materials.

Materials to avoid: Strong oxidising agents: Strong acids.
 Materials to avoid

10.6. Hazardous decomposition products.

In combustion emits toxic fumes.

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Section 11. Toxicological Information.				
<u>11.1 Information on toxicological effects.</u>				
Toxicological information.				
Hazardous ingredients:				
DISODIUM METASILICATE				
ORL	MUS	LD50	770	mg/kg
ORL	RAT	LD50	1153	mg/kg
Toxicity Values: No data available.				
<u>Other health effects.</u>				
Ingestion: There may be mild irritation of the throat.				
Skin contact: There may be mild irritation at the site of contact.				
Eye contact: There may be irritation and redness				
Inhalation: No symptoms.				
Toxicological information on ingredients. No data available:				
12. Ecological Information.				
<u>12.1 Ecotoxicity values:</u> no data available				
<u>12.2 Persistence and degradability:</u> Biodegradable.				
<u>12.3 Bioaccumulative potential:</u> No bioaccumulation potential.				
<u>12.4 Mobility in soil:</u> Readily absorbed into soil.				
<u>12.5 Results of PBT and vPvB assessment:</u> this product is not identified as a PBT/vPvB substance.				
<u>12.6 other adverse effects:</u> Negligible eco-toxicity.				
13. Disposal Considerations.				
<u>13.1 Waste code number:</u> 070601				
Nb. The users attention is drawn to the possible existence of regional or national regulations regarding disposal.				
14. Transport Information.				
<u>14.1 Transport class:</u> This product does not require a classification for transport.				
15. Regulatory Information.				
<u>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:</u> not supplied				
<u>15.2 Chemical safety assessment:</u> A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.				

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16. Other Information.

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.