



SAFETY DATA SHEET



1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation:

Name: GC ADHESIVE

Company/undertaking identification:

Registered company name: VISHAY MEASUREMENTS GROUP UK LTD
 Address: Stroudly Road Basingstoke Hampshire RG24 8FW ENGLAND
 Telephone: +44 (0) 1256 462131 Fax: +44 (0) 1256 471441
 Email : vmm.us@vishaymg.com

Emergency telephone: (00-1) 703-527-3887.

Association/Organisation: CHEMTREC.

2 - HAZARDS IDENTIFICATION

This product is classed: Flammable.

Possibility of irritation to the eyes, by inhalation and skin.

Preparation classification:



Irritant

Flammable

R 36/37/38	Irritating to eyes, respiratory system and skin.
R 10	Flammable.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Full text of risk phrases appearing in section 3: see section 16.

Hazardous substances present on their own:

(present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)

INDEX	CAS	EC	Name	Symb.	R:	%
	409-21-2	206-991-8	SILICON CARBIDE	Xi	36/37/38	50 <= x % < 100

Other substances representing a hazard:

INDEX	CAS	EC	Name	Symb.	R:	%
	7784-30-7	232-056-9	ALUMINIUM ORTHOPHOSPHATE	Xi	36/37/38	10 <= x % < 25

Substances present at a concentration below the minimum danger threshold:

No known substance in this category present.

Other substances with occupational exposure limits:

INDEX	CAS	EC	Name	Symb.	R:	%
	10043-35-3	233-139-2	BORIC ACID			2.5 <= x % < 10
603-002-00-5	64-17-5	200-578-6	ETHANOL	F	11	2.5 <= x % < 10
	7631-86-9	231-545-4	SILICON DIOXIDE			2.5 <= x % < 10

4 - FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing in an unconscious person.

In the event of exposure by inhalation:

In the event of inhalation, move the patient into the fresh air and keep him/her warm and still.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

Do not give the patient anything orally.
If the person is unconscious, place in the recovery position and call an ambulance.

In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.
Refer the patient to an ophthalmologist, in particular if there is any redness, pain or visual impairment.

In the event of splashes or contact with skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.
DO NOT use solvents or thinners.

In the event of swallowing:

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.
Keep still. DO NOT induce vomiting.
Call a doctor immediately and show him the label.

5 - FIRE-FIGHTING MEASURES

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

Suitable extinguishing media:

Special foams for polar liquids (known as alcohol resistant), powders, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Water is not generally recommended since it can be ineffective; however, it can be used successfully to cool containers exposed to the fire and to disperse fumes.

Sometimes, and due to the presence of organic material, a fire may produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Special protective equipment for fire-fighters:

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:

On account of the organic solvents contained in the preparation, eliminate sources of ignition and ventilate the premises.

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

Consult the safety measures listed under headings 7 and 8.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

Environmental precautions:

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13).

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Methods for cleaning up:

Clean preferably with a detergent, do not use solvents.

7 - HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled.

Handling:

Handle in well-ventilated areas.

The vapors are denser than air. They can spread along the ground and form explosive mixtures with air

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Fire prevention:

Use the product in premises where there are no naked flames or other sources of ignition and have protected electrical equipment

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal safety, see §8.
 Observe precautions stated on label and also industrial safety regulations
 Packages which have been opened must be reclosed carefully and stored in an upright position
 Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.
 In all cases, recover emissions at source
 Provide vapor extraction at the emission source and also general ventilation of the premises
 Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions
 Avoid contact of product with the skin and eyes

Prohibited equipment and procedures:

Smoking, eating and drinking are prohibited in premises where the preparation is used
 Never open the packages under pressure

Storage:

Keep the container tightly closed in a dry place.
 Keep away from all sources of ignition - do not smoke.
 Keep well away from all sources of ignition, heat and direct sunlight
 The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Use personal protection equipment as per Directive 89/686/EEC.

Technical measures:

Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction.
 Check the atmosphere periodically.
 If this ventilation is insufficient to maintain the concentration of vapors below the exposure limits, wear breathing apparatus

Exposure limit values per INRS ED 984:

France	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP N°:
64-17-5	1000	1900	5000	9500	-	84
409-21-2	-	10	-	-	-	-

Exposure limit values (2003-2006):

Switzerland	VME-mg/m3:	VME-ppm:	VLE-mg/m3:	VLE-ppm:	Temps:	RSB:
64-17-5	960 mg/m3	500 ppm	1920 mg/m3	1000 ppm	4x15	-
409-21-2	3 A mg/m3	-	-	-	-	-
UK/WELs	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
64-17-5	1000 ppm	-	-	-	-	
409-21-2	10 mg/m3	-	-	-	TI	
UK/OES	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
64-17-5	1000 ppm	-	-	-	-	
409-21-2	10 mg/m3	-	-	-	TI	
409-21-2	4 mg/m3	-	-	-	R	
Germany/AGW	AGW:	AGW:	Faktor:	Bemerkungen:		
7631-86-9	-	4 mg/m3 E	-	DFG, 2, Y		
64-17-5	500 ml/m3	960 mg/m3	2(II)	DFG. Y		
10043-35-3	-	0,5 mg/m3	2 (I)	AGS, Y, 10		
ACGIH/TLV	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
64-17-5	1000 ppm	-	-	-	-	
409-21-2	10 mg/m3	-	-	-	I	
409-21-2	0.1 f/cc	-	-	-	R	
10043-35-3	2 mg/m3	6 mg/m3	-	-	I	

Respiratory protection:

With this preparation, avoid in particular any inhalation of vapors.

Hand protection:

Protective creams may be used for exposed skin, but they should not be applied after contact with the product.
 In the event of prolonged or repeated contact with the hands, use appropriate gloves.

Eye and face protection:

Avoid contact with eyes.
 Wear safety goggles.
 Provide eye washes in workshops where the product is constantly handled

Skin protection:

For further information, see § 11 of S.D.S. - Toxicological information.

9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:

Physical state:	fluid liquid
-----------------	--------------

Important health, safety and environmental information:

pH of the substance or preparation:	not relevant.
-------------------------------------	---------------

The pH is impossible to measure or its value is not relevant.

Boiling point/boiling range:	93 °C.
Flash point interval:	23°C <= Flash point <= 55°C
Vapour pressure:	Below 110 kPa (1.10 bar).
Density:	> 1
Density:	1.8
Water solubility:	Dilutable.

Other information:

melting point/melting range:	not specified.
Self-ignition temperature:	not specified.
Decomposition point/decomposition range :	not specified.
VOC :	100 g/l.

10 - STABILITY AND REACTIVITY

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and nitrogen oxide

11 - TOXICOLOGICAL INFORMATION

No data is available regarding the preparation itself.

Splashes in the eyes may cause irritation and reversible damage

It is generally agreed that substances contained are likely to cause the appearance of major lesions which persist for at least twenty-four hours after application to the eye of an animal

and are likely to cause significant irritation which lasts for at least twenty four hours after application to the healthy, unbroken skin of an animal for a period of up to 4 hours.

It is generally agreed that substances contained are likely to cause serious irritation of the respiratory system and, when applied to the eye of an animal, the appearance of major lesions which persist for at least twenty-four hours.

12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

The product must not be allowed to run into drains or waterways.

Other adverse effects:

Germany: WGK 1 (VwVwS vom 17/05/99, KBws)

13 - DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

Waste:

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

14 - TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2009 - IMDG 2008 - ICAO/IATA 2009).

Classification:



UN1263=PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	3	F1	III	3	33	LQ7	163 640E 650	E1	3	D/E
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
	3	-	III	5 L	F-E,S-E	163 223 955	E1			
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	3	-	III	309	60 L	310	220 L	A3 A72	-	-
	3	-	III	Y309	10 L	-	-	A3 A72	-	-

15 - REGULATORY INFORMATION

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations
In addition directive 2004/73/EC with the 29° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.

Preparation classification:



Irritant

Flammable

Particular hazards associated with the preparation and safety recommendations:

R 36/37/38	Irritating to eyes, respiratory system and skin.
R 10	Flammable.
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 37	Wear suitable gloves.
S 60	This material and its container must be disposed of as hazardous waste.

Particular provisions:

Germany: WGK 1 (VwVwS vom 17/05/99, KBws)

16 - OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

Full text of risk phrases appearing in section 3:

R 11	Highly flammable.
R 36/37/38	Irritating to eyes, respiratory system and skin.