

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY.

Product name: GRAFIFIX
Intended use: Heavy Duty Adhesive

Manufacturer: GRAFITYP UK LIMITED

Address: Grafitack House
103 Mariner
Tamworth
Staffordshire
B79 7UL

Telephone: 01827 300500

Telefax: 01827 51333

2. COMPOSITION/INFORMATION ON INGREDIENTS.

A blend of chlorinated hydrocarbon solvent(s), synthetic rubber, resin and hydrocarbon propellants
For details of substances presenting a health hazard within the meaning of the Chemicals
(Hazard Information & Packaging) regulations 1993 see under Section 8 of this Safety Data
Sheet.

3 HAZARDS IDENTIFICATION.

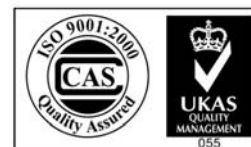
Prolonged contact with product may result in the removal of essential fats and may result in
dermatitis unless good personal hygiene is used. Pressurised container. Protect from sunlight
and do not expose to temperatures exceeding 50°C. Do not pierce or burn even after use. Do
not spray on a naked flame or any incandescent material. Deliberately concentrating and
inhaling contents of this container is dangerous and can be fatal.

Extremely Flammable — Possible risk of irreversible effects.



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4. FIRST AID MEASURES.

General: In all cases of doubt or when symptoms persist seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air, keep warm and at rest. If breathing is irregular or stopped give artificial respiration. Give nothing by mouth. If unconscious place in recovery position and seek medical advice.

Eye contact: Contact lenses should be removed. Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart, seek medical advice.

Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners.

Ingestion: If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

5. FIRE-FIGHTING MEASURES.

Extinguishing media: Carbon dioxide, Dry Powder, Halogenated Hydrocarbons, Sand, Foam

Not To Be Used: Water

Special Instructions For Fire Fighting Personnel: Fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with a water spray. Do not allow run off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES.

Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 & 8. Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth and place in a suitable container for disposal in accordance with the waste regulations. Do not allow large quantities to enter drains or water courses. If it does the local water companies should be contacted; in case of contamination of streams, rivers or lakes, the National Rivers Authority.



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7. HANDLING AND STORAGE

Do not use in areas where potential sources of ignition exist. Electrical equipment should be protected to the appropriate standard.

Use non-sparking tools & exclude sources of heat, sparks and flames. Avoid skin & eye contact. For personal protection see Section 8. Good housekeeping and regular removal of waste materials will minimise risks.

Store in accordance with the conditions of the licence, which is necessary under the Petroleum (Consolidation) Act. See the HSE guidance note Storage of Flammable Liquids in Containers. Observe the label precautions. Store between 5 & 30°C in a dry well ventilated place away from sources of heat, ignition and direct sunlight. No-smoking. The principals contained in the HSE guidance notes Storage of Packaged Dangerous substances should be observed when storing this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures: Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If extraction methods are insufficient to maintain concentrations of particulates and/or solvent vapours below relevant OEL's, suitable respiratory protective equipment should be worn.

Substance Name	% Conc Range	Symbol	OES 8hr ppm	OES 15min ppm	Risk Phrases	Notation
Dichloromethane	>25% & = <50%	Xn	100.00	300.00	40	MEL
Propane OEL's are asphyxiant under COSHH keep Oxygen level >18%	>10% & = <25%	F+			12	
Butane (1), Isobutane (2)	>10% & = <25%	F+	600.00	750.00	12	OES

Notes

Notations = Sk — risk of absorption through skin Sen — respiratory sensitizer.

Bmgv — Biological Monitoring may be appropriate

(see Biological Monitoring Guidance Value in EH40 Table 3).

OEL's are from EH40 except where marked SUP which are assigned by the supplier of the substance.

General Protection: All ppe, including rpe, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH regulations.

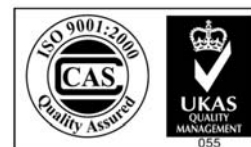
Respiratory Protection: Air fed respiratory equipment should be worn when sprayed if levels cannot be controlled below OEL's and engineering methods cannot be reasonably improved.

Hand Protection: Full physical protection is best. Seek relevant advice from glove manufacturers. Barrier cream may be of help but should not be applied after exposure has



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occurred.

Eye Protection: Eye protection designed to protect against liquid splashes should be worn.

Skin Protection: Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

9. PHYSICAL AND CHEMICAL PROPERTIES.

Physical State:	Clear pale amber coloured liquid.
Flash Point:	<0°C Method Abel Apparatus to British Standard BS 2000 Pt.170
Viscosity:	
Specific Gravity:	1.130 gms/cc Method Weight per gallon cup
Vapour Density:	Heavier than air.
Lower Explosion Limit:	
Solubility in water:	Immiscible.

10. STABILITY AND REACTIVITY.

Stable under the recommended storage and handling conditions (see Section 7). In a fire, hazardous decomposition products such as hydrogen chloride, chlorine and phosgene may be produced. Slow hydrolysis with moisture forms hydrochloric acid. Keep away from oxidising agents, concentrated nitric acid, light metals such as aluminium, strong alkalis, amines and earth metals such as sodium, potassium and magnesium.

11. TOXICOLOGICAL INFORMATION.

There is no data available on the product itself. Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eye may cause irritation and reversible local damage.

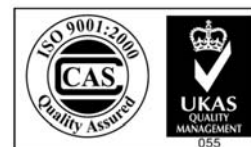
12. ECOLOGICAL INFORMATION.

There is no data available on the product itself. Large quantities of the product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters. The Air Pollution Control requirements of regulations made under the Environmental Protection Act may apply to the use of this product.



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13. DISPOSAL CONSIDERATIONS.

Do not allow large quantities to enter the drains or water courses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution & Environmental Protection Acts.

14. TRANSPORT INFORMATION.

<u>Road/Rail</u>	SI Number:	1950
	Class:	2
<u>Sea</u>	Marine Pollutant:	No
	Ems:	2-13
	Main Risk:	Flammable
	Sub Risk:	Harmful
	Shipping Name:	Aerosol Dispensers NOS
	UN Number:	1950
	MFAG:	260***
	Class:	2

15. REGULATORY INFORMATION.

The product is classified and labelled for supply in accordance with the Chemicals (Hazard Information & Packaging) Regulations as follows.

Supply Classification: Xn Harmful
F+ Extremely Flammable

Contains: Dichloromethane

Risk Phrases: R12:Extremely Flammable
R40:Possible risk of irreversible effects.

Safety Phrases: S2:Keep out of reach of children.
S16:Keep away from sources of ignition — No Smoking.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S46:If swallowed seek medical advice immediately and show this container or label.

'P' Phrases: Do not breathe Vapour or Spray.

The information contained in this Safety Data Sheet does not constitute the user's own assessment of the workplace risks as required by other health & safety legislation.

The provisions of the Health & Safety at Work Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.



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16. OTHER INFORMATION.

Text of any Risk Phrases listed in Section 8

- R12 Extremely Flammable
- R40 Possible risk of irreversible effects.

The information contained in this safety data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information & Packaging) Regulations. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written instructions. As the specific conditions of use of the product are outside of the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this Safety Data Sheet is based on the present state of knowledge and current national legislation. It 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.

Further information and relevant advice can be found in:-

The Control of Substances Hazardous to Health Regulations 1988 (SI 1988: 1657)

The Manual Handling Operations Regulations 1992 (SI 1992: 2793)

Storage of Flammable Liquids in Containers. HS(G)51

Storage of Packaged Dangerous Substances. HS(G)71

The Environmental Protection (Duty of Care) Regulations 1992 (SI 1988: 2839)

Date of issue of original: 20.01.97

1st Revision: 11.08.99

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with legal regulations. The information contained herein is based on the current state of our knowledge and is intended to describe products from the point of view of safety requirements and thus should not be constructed as guaranteeing specific properties. For further information contact the office.



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