

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY.

Product name: FUSION

Intended use: Acrylic 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.

INGREDIENT NAME	CAS No.	Symbol	RISK (R No.)	CONTENTS %
Dichloromethane	0000075-09-	Xn	40	>50
1-Methoxy-2-Propanol	107-98-2	None	None	1-5
Surfactants				1-5

3. HAZARDS IDENTIFICATION

Eye contact: Irritating to eyes.

Skin contact: Irritating to skin.

Inhalation: High levels of vapour/mist may cause dizziness. Can cause irritation of the respiratory tract.

Ingestion: Single dose oral toxicity is low. Aspiration may cause rapid absorption via lungs, resulting in injury to other body systems.

Some tests on laboratory animals have shown dichloromethane to be carcinogenic. Well established species differences have shown this response to be of little relevance to man and that **DICHLOROMETHANE DOES NOT PRESENT A CARCINOGENIC RISK UNDER ANY FORESEEABLE CONDITIONS OF HANDLING AND USE.**



Tel: 01827 300500
Fax: 01827 51333
Email sales@grafityp.co.uk
Website: www.grafityp.co.uk

Directors:
L.J. Gilbert (Managing Director) H. Bosman Jr. (Secretary) R. Coolen (Director)
J. Bartnicki (Technical Director) N. Stevenson (Sales Director)
Grafityp UK Limited. Registered Office: Grafitack House, 103 Mariner, Tamworth, Staffordshire, B79 7UL.
Registration Number: 2191134 England.



4. FIRST AID MEASURES

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

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

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

5. FIRE-FIGHTING MEASURES.

Extinguishing media: Water fog. Do not use: Water jet.

Special Fire Fighting Procedures: Fire exposed containers should be sprayed with water to lessen risk of explosion.

Unusual Fire and Explosive Hazards: Fire will produce dense black smoke containing combustion products which may be a health hazard. Appropriate self-contained breathing apparatus may be required. Run off from fire must not enter drains.

6. ACCIDENTAL RELEASE MEASURES.

Procedures For Leaks Or Spillage: 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, vermiculite, diatomaceous earth, and place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Do not allow to enter drains or water courses. Clean preferably with a detergent; avoid the use of solvents. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the National Rivers Authority.

7. HANDLING AND STORAGE.

Handling: Avoid inhalation of vapour and spray mist.

Avoid skin and eye contact.

Smoking, eating and drinking should be prohibited in areas of use and storage.

Good housekeeping standards and regular safe removal of waste materials will minimise risks of spontaneous combustion and other fire hazards.

Storage: Store below 50°C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.



Tel: 01827 300500
Fax: 01827 51333
Email sales@grafityp.co.uk
Website: www.grafityp.co.uk

Directors:
L.J. Gilbert (Managing Director) H. Bosman Jr. (Secretary) R. Coolen (Director)
J. Bartnicki (Technical Director) N. Stevenson (Sales Director)
Grafityp UK Limited. Registered Office: Grafitack House, 103 Mariner, Tamworth, Staffordshire, B79 7UL.
Registration Number: 2191134 England.



No smoking. Observe the label precautions. Store separately from strong oxidising agents and strongly alkaline and strongly acidic materials.

Containers which are opened should be properly resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

INGREDIENT NAME	OES/MEL	8hr TWA	STEL (15 mins)
Dichloromethane	MEL	100ppm	300ppm

Engineering Measures: Provide adequate ventilation to ensure the airborne concentration of substances to which an OES/MEL has been assigned is below that OES/MEL (Occupational Exposure Standard/Maximum Exposure Limit).

Respiratory Protection: Air-fed respiratory equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limit and engineering controls and measures cannot reasonably be improved.

Hand Protection: When skin exposure may occur, advice may be sought from the glove suppliers on appropriate types. Barrier creams may help to protect exposed areas of the skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

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

Skin protection: Cotton or cotton/synthetic overalls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner. (Sk) denotes product can be absorbed through skin.

9. PHYSICAL AND CHEMICAL PROPERTIES.

Physical State:	Volatile liquid
Appearance:	Clear
Odour:	Sharp penetrating
pH:	N/A
Boiling point:	40°C
Melting point:	-97°C
Flash point:	N/A
Flammability:	N/A
Autoflammability:	>400°C
Explosive properties:	None
Oxidising properties:	None
Relative density @ 20°C:	1.335
VOC Content:	1335g/L
Water solubility:	Slightly soluble 1.3% @ 25°C
Solvent solubility:	Miscible with most organic solvents.
Other data:	



Tel: 01827 300500
Fax: 01827 51333
Email sales@grafityp.co.uk
Website: www.grafityp.co.uk

Directors:
L.J. Gilbert (Managing Director) H. Bosman Jr. (Secretary) R. Coolen (Director)
J. Bartnicki (Technical Director) N. Stevenson (Sales Director)
Grafityp UK Limited. Registered Office: Grafitack House, 103 Mariner, Tamworth, Staffordshire, B79 7UL.
Registration Number: 2191134 England.



10. STABILITY AND REACTIVITY.

Stability: Stable.

Conditions to avoid: Avoid naked flames, red hot surfaces, other high temperature sources that may induce thermal decomposition.

Incompatibility (Materials to avoid): Oxidising agents, strong acids, strong alkalis.

Hazardous decomposition products: Hydrogen chloride, Phosgene, Chlorine.

11. TOXICOLOGICAL INFORMATION.

Inhalation: Harmful by inhalation. High concentrations of vapour may be irritant to the respiratory tract. High atmospheric concentrations will lead to anesthetic effects and adverse effects on the central nervous system. Symptoms may include light-headedness, nausea, vomiting and headache. Exposure to concentrations of 1000ppm for 20 minutes causes lightheadedness. Very high concentrations may result in a loss of consciousness. Very high exposures may cause an abnormal heart rhythm and prove suddenly fatal. Dichloromethane is converted to carbon monoxide in the body, which reduces the oxygen carrying capacity of the blood. This is reflected by a raised carboxyhaemoglobin concentration in the blood.

Skin contact: Slight/mild irritant. Will remove the natural greases resulting in dryness, cracking and dermatitis. Repeated and/or prolonged skin contact may cause reddening, burning and blisters. Can be absorbed through skin but not in sufficient amounts to cause adverse effects.

Eye contact: Moderate irritant. Liquid splashes may result in transient eye damage.

Ingestion: The swallowing of small splashes is unlikely to cause any adverse effects. Large amounts may produce internal irritation, nausea, vomiting and diarrhoea and can lead to drowsiness and unconsciousness.

Long Term Exposure: Repeated exposure to high levels may produce adverse effects on the liver and kidneys.

A chronic inhalation study in the mouse has shown dichloromethane to be carcinogenic in this species, when exposed to levels well above the occupational exposure limit, causing tumours in both the liver and lung. Additional studies in the mouse, the rat and the hamster have shown no further significant evidence of a carcinogenic effect. The effect in mice is specific to this species and is very unlikely to occur in man. This is due to well established differences in the metabolic pathways between rodents and man. Dichloromethane has been used for many decades.

SEVERAL MAJOR STUDIES ON HUMANS OCCUPATIONALLY EXPOSED SHOW NO CASUAL RELATIONSHIP BETWEEN EXPOSURE TO DICHLOROMETHANE AND AN INCREASE IN THE INCIDENCE OF CANCER

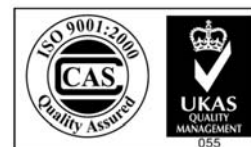
12. ECOLOGICAL INFORMATION.



Tel: 01827 300500
Fax: 01827 51333
Email sales@grafityp.co.uk
Website: www.grafityp.co.uk

Directors:

L.J. Gilbert (Managing Director) H. Bosman Jr. (Secretary) R. Coolen (Director)
J. Bartnicki (Technical Director) N. Stevenson (Sales Director)
Grafityp UK Limited. Registered Office: Grafitack House, 103 Mariner, Tamworth, Staffordshire, B79 7UL.
Registration Number: 2191134 England.



Dichloromethane has a low bio-accumulation potential, very low toxicity to fish and is readily biodegradable

13. DISPOSAL CONSIDERATIONS.

Do not allow into 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 in accordance with regulations made under the Control of Pollution Act.

Using the information provided in this data sheet, advice should be obtained from the Waste Regulation Authority whether the special waste regulations apply.

14. TRANSPORT INFORMATION.

CCCN:
UN Number: 1593
Class: 6.1
IMDG:
ICAO/IATA:
RID/ADR:

15. REGULATORY INFORMATION.

Label for supply: HARMFUL

Risk phrases: R20/22: Harmful by inhalation and if swallowed.
R40: Possible risk of irreversible effects.

Safety phrases: S2: Keep out of reach of children.
S23: Do not breathe vapour/spray.
S24/25: Avoid contact with eyes and skin.
S36/37: Wear suitable protective clothing and gloves.

Regulatory references: The Chemicals (Hazard Information and Packaging) Regulations 1993.

16. OTHER INFORMATION.

The information contained in this data sheet is provided in accordance with the requirements of the Chemicals (Hazards Information and Packaging) Regulations. It does not constitute the user's own assessment of workplace risks as required by other health and safety legislation. The provisions of the Health & Safety at Work Act and Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of the product are outside the



Tel: 01827 300500
Fax: 01827 51333
Email sales@grafityp.co.uk
Website: www.grafityp.co.uk

Directors:
L.J. Gilbert (Managing Director) H. Bosman Jr. (Secretary) R. Coolen (Director)
J. Bartnicki (Technical Director) N. Stevenson (Sales Director)
Grafityp UK Limited. Registered Office: Grafitack House, 103 Mariner, Tamworth, Staffordshire, B79 7UL.
Registration Number: 2191134 England.



GRAFITYP UK LTD

Grafitack House, 103 Mariner, Tamworth, Staffordshire B79 7UL.



supplier's control, the user is responsible for ensuring that the requirements of the relevant legislation are complied with.

OES/MEL values are obtained from the current issue of EH40 unless indicated thus (Sup) when a value has been obtained from the supplier.

Further information and advice can be found in the following publications:

The Control of Substances Hazardous to Health Regulations 1988
(SI 1988:1657). Storage of Packaged Dangerous Substances,
HS(G)71.

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

Date of issue of original: 26.03.96

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.



Tel: 01827 300500
Fax: 01827 51333
Email sales@grafityp.co.uk
Website: www.grafityp.co.uk

Directors:

L.J. Gilbert (Managing Director) H. Bosman Jr. (Secretary) R. Coolen (Director)
J. Bartnicki (Technical Director) N. Stevenson (Sales Director)
Grafityp UK Limited. Registered Office: Grafitack House, 103 Mariner, Tamworth, Staffordshire, B79 7UL.
Registration Number: 2191134 England.



Bank Details

Account Number: 15224821

Sort Code: 53-70-15

BIC: NWBK GB 2L

IBAN: GBB4 NWBK 5370 1515 2248 21

Certificate NO: 098/78