

**SAFETY DATA SHEET  
FLAG SOLVENT 6**

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

<b>PRODUCT NAME</b>	FLAG SOLVENT 6		
<b>Application</b>	Etchant / cleaner.		
<b>SUPPLIER</b>	FLAG-SOPREMA UK Ltd	<b>MANUFACTURER</b>	Caswell and Company Ltd
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**2 HAZARDS IDENTIFICATION**

Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Irritating to eyes. Limited evidence of a carcinogenic effect.

CLASSIFICATION (1999/45)           Carc. Cat. 3;R40. Xi;R36. R66, R67.

**PHYSICAL AND CHEMICAL HAZARDS**

Under certain conditions this product may become flammable and / or develop a flashpoint.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Name	EC No.	CAS-No.	Content	Classification (67/548)
BUTANONE	201-159-0	78-93-3	10-30%	F;R11 Xi;R36 R66 R67
DICHLOROMETHANE	200-838-9	75-09-2	60-100%	Carc. Cat. 3;R40

The Full Text for all R-Phrases are Displayed in Section 16

**4 FIRST-AID MEASURES**

**INHALATION**

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

**INGESTION**

Get medical attention immediately! Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

**SKIN CONTACT**

Remove contaminated clothing immediately and wash skin with soap and water.

**EYE CONTACT**

Immediately flush with plenty of water. Remove any contact lenses and open eyes wide apart. Call an ambulance and continue flushing during transportation to hospital. Bring these instructions.

**5 FIRE-FIGHTING MEASURES**

**EXTINGUISHING MEDIA**

Extinguish with foam, carbon dioxide, dry powder or water fog.

**SPECIAL FIRE FIGHTING PROCEDURES**

Avoid breathing fire vapours. Beware, risk of formation of toxic and corrosive gases.

**UNUSUAL FIRE & EXPLOSION HAZARDS**

This product may become flammable and or develop a flashpoint under certain conditions. Avoid exposing product to heat, naked flames or other sources of ignition.

**SPECIFIC HAZARDS**

The product is non combustable at room temperature. If heated however toxic and flammable gases may be formed. Keep containers cool and out of direct sunlight.

**PROTECTIVE MEASURES IN FIRE**

Wear full protective clothing.

**6 ACCIDENTAL RELEASE MEASURES**

**FLAG SOLVENT 6**

**PERSONAL PRECAUTIONS**

Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Wear protective gloves and, in case of splashes, goggles/face shield too.

**ENVIRONMENTAL PRECAUTIONS**

Do not discharge into drains, water courses or onto the ground.

**SPILL CLEANUP METHODS**

Clean-up personnel should use respiratory and/or liquid contact protection. Stop leak if possible without risk. DO NOT touch spilled material! Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers.

**7 HANDLING AND STORAGE**

**USAGE PRECAUTIONS**

Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Risk of vapour concentration on the floor and in low-lying areas. Wear full protective clothing for prolonged exposure and/or high concentrations. Eye wash facilities and emergency shower must be available when handling this product. Do not eat, drink or smoke when using the product. Avoid forming spray/aerosol mists.

**STORAGE PRECAUTIONS**

Keep separate from food, feedstuffs, fertilisers and other sensitive material. Protect from freezing and direct sunlight. Store in closed original container at temperatures between 5°C and 25°C.

**STORAGE CLASS**

Toxic storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
BUTANONE	WEL	200 ppm(Sk)	600 mg/m3(Sk)	300 ppm(Sk)	899 mg/m3(Sk)	
DICHLOROMETHANE	WEL	100 ppm(Sk)	350 mg/m3(Sk)	300 ppm(Sk)	1060 mg/m3(Sk)	

WEL = Workplace Exposure Limit.

**INGREDIENT COMMENTS**

WEL = Workplace Exposure Limits

**PROTECTIVE EQUIPMENT**



**PROCESS CONDITIONS**

Use engineering controls to reduce air contamination to permissible exposure level.

**ENGINEERING MEASURES**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

**RESPIRATORY EQUIPMENT**

If ventilation is insufficient, suitable respiratory protection must be provided.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Clear liquid	RELATIVE DENSITY	1.26
COLOUR	Colourless	VISCOSITY	0.32 cps 20°C
ODOUR	Ether		
BOILING POINT (°C)	39 760 mm Hg		
VOLATILE BY VOL. (%)	100		

**10 STABILITY AND REACTIVITY**

**STABILITY**

Stable under normal temperature conditions and recommended use.

**CONDITIONS TO AVOID**

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers. Avoid contact with strong reducing agents.

**MATERIALS TO AVOID**

Strong oxidising substances.

**FLAG SOLVENT 6**

**HAZARDOUS DECOMPOSITION PRODUCTS**

When heated, vapours/gases hazardous to health may be formed. If heated, vapours/gases hazardous to health (e.g. CO, NOx, HCl, isocyanates) may be formed.

**11 TOXICOLOGICAL INFORMATION**

**INHALATION**

Vapour from this chemical can be hazardous when inhaled. Gas or vapour displaces oxygen available for breathing (asphyxiant).

**INGESTION**

May cause nausea, headache, dizziness and intoxication. Ingestion of large amounts may cause unconsciousness.

**SKIN CONTACT**

Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

**EYE CONTACT**

Extreme irritation of eyes and mucous membranes, including burning and tearing.

**12 ECOLOGICAL INFORMATION**

**ECOTOXICITY**

Low acute toxicity to aquatic organisms.

**MOBILITY**

Mobile. The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. The product has poor water-solubility.

**BIOACCUMULATION**

The product is not bioaccumulating.

**DEGRADABILITY**

The product has not proven to be degradable under anaerobic conditions.

**13 DISPOSAL CONSIDERATIONS**

**GENERAL INFORMATION**

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements. Contact specialist disposal companies.

**Waste Code**

Hazardous waste

**14 TRANSPORT INFORMATION**



UKRoadClass	6.1		
ShippingName	DICHLOROMETHANE		
UN NUMBER	1593	UKRoadPackGroup	III
ADR Class	6.1	ADR CLASS	Class 6.1:Toxic substances.
ADR Item No	III	HAZARD No. (ADR)	60
ADR LABEL NO.	6.1	HAZCHEM CODE	2Z
CEFIC TEC(R) NO.	61GT1-III	RID CLASS NO.	6.1
RID PACK GROUP	III	UN No Sea	1593
Sea Class	6.1	Sea Packing Group	III
EMS No	F-A, S-A	MFAG	See Guide
Marine Pollutant	No.	UN Air	1593
Air Trans Class	6.1	Air Packing Group	III

**15 REGULATORY INFORMATION**

**SYMBOLS**

**FLAG SOLVENT 6**



Harmful

CONTAINS

DICHLOROMETHANE

RISK PHRASES

- R36 Irritating to eyes.
- R40 Limited evidence of a carcinogenic effect.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

SAFETY PHRASES

- S25 Avoid contact with eyes.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S36/37 Wear suitable protective clothing and gloves.
- S60 This material and its container must be disposed of as hazardous waste.

**16 OTHER INFORMATION**

REVISION DATE 28.01.11

REV. NO./REPL. SDS GENERATED 8

SDS NO. 10783

SAFETY DATA SHEET STATUS

Approved.

RISK PHRASES IN FULL

- R11 Highly flammable.
- R36 Irritating to eyes.
- R40 Limited evidence of a carcinogenic effect.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in a process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.