

## 1. IDENTIFICATION OF THE SUBSTANCE/

## PREPARATION AND COMPANY/UNDERTAKING

PRODUCT

C.F.20

APPLICATION

INTERNAL SYSTEM CLEANER

COMPANY UNDERTAKING IDENTIFICATION

ADVANCED ENGINEERING LTD  
 UNIT L, KINGSFIELD BUSINESS CENTRE,  
 PHILANTHROPIC ROAD, REDHILL, SURREY,  
 RH1 4DP ENGLAND  
 TEL: 01737 859900  
 EMERGENCY TELEPHONE NO AS ABOVE  
 FAX : 01737 859700

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL DESCRIPTION :

BLENDED SOLVENT CLEANER

HAZARDOUS COMPONENTS :

Propylene glycol based ethers  
 Ethylene glycol ethers  
 Dimethyl carbinol

## 3. HAZARDS IDENTIFICATION

HARMFUL Xn

## 4. FIRST AID MEASURES

EYES

Immediately wash out with plenty of water for at least 15 minutes. Get medical attention.

SKIN

Remove clothing. Wash with soap and water. Get medical attention if symptoms occur.

INHALATION

If symptomatic move to fresh air. Get medical attention if symptoms persist.

INGESTION

Rinse mouth. Drink plenty of water. Do not induce vomiting. Obtain medical advice.

OTHER

Seek medical attention if irritation persists.

## 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Water spray, dry chemicals, carbon dioxide.

APPARATUS REQUIRED

Wear self-contained breathing apparatus and protective clothing.

HAZARDOUS COMBUSTION PRODUCTS

Carbon dioxide, carbon monoxide.

FIRE AND EXPLOSION HAZARDS

Forms peroxides of unknown stability.

## 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Avoid breathing vapours. Floor may become slippery.

RECOVERY OF MINOR SPILLAGE

Isolate area with dyke and absorb spill with vermiculite or other inert material, then place in container for waste disposal.

RECOVERY OF MAJOR SPILLAGE

As above for minor spillage, prevent run-off from entering drains, sewers or streams.

## 7. HANDLING AND STORAGE (IN NORMAL USE)

PREVENTION OF FIRE OR EXPLOSION	Avoid sources of ignition. Keep from contact with oxidising materials. Minimise exposure to air.
STORAGE	Keep container closed and store away from heat, flames and light. Keep in cool dry and ventilated area.

## 8. EXPOSURE CONTROLS

OCCUPATIONAL EXPOSURE LIMITS	TVL – none established
ENGINEERING MEASURES VENTILATION	Good general ventilation (typically 10 air changes per hour) should be matched to conditions. Supplementary local exhaust or respiratory protection may be needed in special circumstances such as poorly ventilated areas, evaporation from large surfaces, spraying or heating.
PERSONAL PROTECTIVE EQUIPMENT RESPIRATORY	If engineering controls do not maintain airborne concentration to an acceptable level an approved respirator must be worn.
HAND	PVC or rubber gloves
EYE	Safety goggles and/or face shield.
SKIN	Good industrial practice to minimise skin contact by using chemical resistant protective outer clothing.
OTHER	Eye bath and washing facilities required for decontamination.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM	Liquid
APPEARANCE	Colourless
ODOUR	Slight ether odour
PH	6.00
SPECIFIC GRAVITY	0.936 @ 20 Deg C
VAPOUR PRESSURE	0.501 @ 20 Deg C
BOILING POINT	193 Deg C
MELTING POINT	Not available
FLASHPOINT (DegC)	80 Deg C
AUTO FLAMMABILITY	N/A
LOWER EXPLOSIVE LEVEL	135 Deg C @ 1.5 volume %
UPPER EXPLOSIVE LEVEL	199 Deg C @ 35 volume %
AUTO IGNITION TEMP	170 Deg C
EXPLOSIVE POWER	Not available

## 10. STABILITY AND REACTIVITY

STABILITY	Stable
CONDITIONS TO AVOID	Heat or extreme high temperatures
MATERIALS TO AVOID	Strong oxidising agents
RECOMMENDED MATERIALS FOR EQUIPMENT	Viton, Nylon, Steel, Aluminium, Brass, Copper, Cast iron, Titanium
HAZARDOUS POLYMERISATION	Will not occur

## 11. TOXICOLOGICAL INFORMATION

EYES	Causes irritation
SKIN	Could cause sensitivity and irritation. Low hazard for usual industrial handling by trained personnel.
INGESTION	Could cause discomfort, cramps and vomiting. LD50 (oral) rat: 7292 mg/kg
INHALATION	May be irritating to respiratory system LC50 (guinea pig): 18 mg/m <sup>3</sup>
CARCINOGENICITY	No information
MUTAGENICITY	None known, not anticipated
REPRODUCTIVITY	No information
CHRONIC EFFECTS	None known

## 12. ECOLOGICAL INFORMATION

MOBILITY	Soluble in water
PERSISTANCE AND DEGRADABILITY	Not determined
BIO ACCUMULATION	Not known
AQUATIC TOXICITY	This environmental effects summary is written to assist in addressing emergencies created by an accidental spill which might occur during the shipment of this material. In general it is not meant to address discharges into public sewers or publicly owned treatment works. This product has the following properties – low biological demand and little potential to affect aquatic organisms. When diluted with a large amount of water this material released directly or indirectly into the environment is not expected to have a significant demand.
COD	2.08 g oxygen/g
BOD-5	0.25 g oxygen/g
24H LC-50 (Goldfish)	2700 mg/l
96H LC-50 (Bluegill sunfish)	1300 mg/l
	The above data may vary due to batch blending

## 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS	Used product should be treated as a hazardous waste. recommended disposal is by incineration by a licensed waste disposal company.
CONTAMINATED PACKAGING	According to packing instructions.

## 14. TRANSPORT INFORMATION (REGULATIONS)

PACKAGING (Size & Description)	5 L Plastic Bottles ,20 L Plastic Bottles or 205 L Drums
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TRANSPORT CLASSIFICATION	Not regulated
SUBSTANCE IDENTIFICATION NUMBER	None
PROPER SHIPPING NAME	Compound – cleaning liquid, C.F.20
ICAO/IATA/IMDG CLASS	Not classified
SUBSIDIARY RISK	Not known
PACKING GROUP	III
ADR CLASS	Not classified
TRANSPORT HAZARD SYMBOL	Not classified
HAZARD IDENT NUMBER	Not classified
EMERGENCY ACTION CODE	Not classified
OTHER	

#### 15. REGULATORY INFORMATION (Supply & Labeling)

SUPPLY CLASSIFICATION	Harmful Xn
HAZARD PICTOGRAM	
RISK PHRASES	R22 - Harmful if swallowed
SAFETY PHRASES	S2 - Keep out of reach of children
	S3/7/9 Keep container tightly closed, in a cool well ventilated place.
	S24/25 Avoid contact with skin and eyes.
	S45 In case of accident or if you feel unwell, seek Medical advice immediately (show label where possible).

#### 16. OTHER INFORMATION

The information contained in this document only covers the hazards presented by this material, it does not constitute a workplace risk assessment.

The information contained in this Safety Data Sheet is based on present knowledge. It provides guidance on health, safety and environmental aspects of the product. The specific conditions of use of the product are outside the suppliers control.

The data and advice given apply when the product is sold for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. You should not use the product other than for the stated application or applications without seeking advice from us.

If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

If you are an employer, it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

#### 17. REVISIONS AND DATES

Revision 1.4 Jan. 1999 Change of Address, Telephone numbers and Disposal Instructions