

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

PRODUCT	ECO-FLUSH
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 :	n-Propyl Bromide
CAS NO	106-94-5
EC NO	203-445-0

3. HAZARDS IDENTIFICATION

HARMFUL BY INHALATION R20

4. FIRST AID MEASURES

EYES	If substance has entered eyes wash thoroughly for 15 minutes Irrigate eyes thoroughly by lifting eyelids. Seek medical advice.
SKIN	Remove contaminated clothing immediately and drench affected skin with plenty of water and soap. Contaminated clothing should be laundered before reuse.
INHALATION	Remove patient to fresh air. If breathing is difficult, a trained person should give oxygen. Apply artificial respiration if patient is not breathing. Seek medical advice.
INGESTION	Rinse mouth with water, do not swallow Do not induce vomiting, because of risk of aspiration.. If aspiration is suspected obtain immediate medical attention. Never give anything by mouth to an unconscious person. Obtain medical advice.
OTHER	If you feel unwell seek medical attention, show label and /or this safety data sheet. NOTE TO PHYSICIANS: treat by observation and supportive measures as indicated by the patients condition.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	Water, foam, carbon dioxide or dry agent (S43) according to surrounding conditions.
APPARATUS REQUIRED	Wear self-contained breathing apparatus and protective clothing.
HAZARDOUS COMBUSTION PRODUCTS	Hydrogen halides, carbon monoxide. Smoke from fires is toxic, take precautions to protect personnel from exposure. Vapours are heavier than air and may travel considerable distances.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Wear suitable protective clothing including eye/face protection and gloves (S36/37/39). Wear suitable respiratory protection. Evacuate the area and keep personnel upwind.
RECOVERY OF MINOR SPILLAGE	Absorb spillage in earth or sand. Remove contaminated material to safe location for subsequent disposal.
RECOVERY OF MAJOR SPILLAGE	If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities.

7. HANDLING AND STORAGE (IN NORMAL USE)

Avoid spilling, skin and eye contact and wear full Protective clothing for prolonged exposure and high concentrations. Ventilate well and avoid breathing vapours, use approved respirator if air contamination is above acceptable levels.

Do not breath vapour (S23)
 Avoid contact with skin and eyes (S24,25)
 Use only in well ventilated areas
 When using do not eat, drink or smoke (S51)

Do not store drums in open sunshine and keep away from heat (S15)
 Keep in original container and tightly closed and store in a cool well ventilated place.
 Any spillage should be prevented from entering drains or water courses.

8. EXPOSURE CONTROLS

EXPOSURE LIMITS	PEL/TLV 100ppm 525 mg/m3
ENGINEERING MEASURES VENTILATION	Good general ventilation, especially in confined areas. In case of insufficient ventilation wear suitable respiratory equipment.
PERSONAL PROTECTIVE EQUIPMENT	Should be used only as a last resort if ventilation is not sufficient.
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. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM	Liquid
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APPEARANCE	Colourless
ODOUR	Sweet odour
PH	Not applicable
VAPOUR PRESSURE	110.8 mm Hg @ 20 Deg C
BOILING POINT	69 Deg C
MELTING POINT	-110 Dec C
FLASHPOINT (DegC)	none TAG closed cup (ASTM D56)
AUTO IGNITION POINT	490 Deg C
VAPOUR DENSITY	4.3
WATER SOLUBILITY	2.4 gms/litre
FLAMMABLE LIMITS	LEL 4% UEL 7.8%

10. STABILITY AND REACTIVITY

STABILITY	Stable
CONDITIONS TO AVOID	Heat or extreme high temperatures
MATERIALS TO AVOID	Strong oxidising agents
RECOMMENDED MATERIALS FOR EQUIPMENT	See separate list for compatible materials

11. TOXICOLOGICAL INFORMATION

EYES	Mildly irritating
SKIN	Mildly irritating
INGESTION	Irritating to respiratory tract
INHALATION	Harmful by inhalation
CARCINOGENICITY	No information
MUTAGENICITY	None known
REPRODUCTIVITY	No information
Other information	May cause irregular pulse Has central nervous system effects May cause systemic effects LD50 (rats oral) 4260 mg/kg LC50 (rats inhalation) 253,000 mg/m ³ /0.5hrs Ames test negative

12. ECOLOGICAL INFORMATION

MOBILITY	Sinks in water
PERSISTANCE AND DEGRADABILITY	Low biodegradable, but low atmospheric lifetime
BIO ACCUMULATION	Low bio accumulation potential. Large volumes may penetrate soil and contaminate groundwater.

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, or returned to supplier for incineration.
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
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 dated 05.01.99 CHANGE OF ADDRESS AND TELEPHONE NUMBERS