

Anti-Static Foam Cleanser

Product Code: AFC

PRODUCT DESCRIPTION

A very efficient anti-static foaming cleanser for surfaces prone to static dust attraction which has been specially developed for use on plastics, metal, glass and synthetic surfaces. This product is free of CFC solvents and propellants. **AFC** is available in 200 and 400ml 100% Ozone Friendly aerosols.

FEATURES

- * Highly efficient, biodegradable hard surface cleaner resulting from years of experimentation and research with surfactants and detergents.
- * Powerful anti-static properties - removing static charges from hard surfaces and preventing their reoccurrence. Additionally, glass lenses treated with **AFC** will remain mist-free for long periods.
- * Non-flammable - unlike many other foaming cleaners.
- * Safe on delicate surfaces - will not harm plastic surfaces which may be attacked by solvents.
- * Mildly perfumed to identify treated areas.

TYPICAL PROPERTIES

Form:	Aqueous Liquid With Lemon Fragrance
Density:	0.865
pH:	7 to 8
Boiling Point:	>100°C
Flash Point:	Non-Flammable to BAMA Tests

TECHNICAL
DATA
SHEET



**Copyright
Electrolube
2003**

All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification. Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.



Anti-Static Foam Cleanser – Page 2

DIRECTIONS FOR USE

Spray on surfaces to be treated and wipe away ingrained contamination. Re-spray, wiping gently to remove foam. It is recommended that an **Electrolube Safewipe (SWI100)**, a specially developed cotton, lint-free cloth, is used in conjunction with this product.

PACKAGING

200ml Aerosol
400ml Aerosol

ORDER CODE

AFC200D
AFC400D

TECHNICAL DATA SHEET



Copyright Electrolube 2003

All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification. Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.





SAFETY DATA SHEET ANTI-STATIC FOAM CLEANSER

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

PRODUCT NAME ANTI-STATIC FOAM CLEANSER
PRODUCT NO. AFC400D [EAFC200D]
APPLICATION Cleaning Product
SUPPLIER ELECTROLUBE. A division of
HK WENTWORTH LTD
KINGSBURY PARK, MIDLAND
ROAD
SWADLINCOTE
DERBYSHIRE, DE11 0AN
UNITED KINGDOM
+44(0)1283 222 111
+44(0)1283 550 177
info@hkw.co.uk
EMERGENCY TELEPHONE +44(0)1283 222 111 between 8.30 am - 5.00pm Mon - Fri

2 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

PHYSICAL AND CHEMICAL HAZARDS

Aerosol containers can explode when heated, due to excessive pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
PROPAN-2-OL	200-661-7	67-63-0	1-5%	F;R11 Xi;R36 R67
2-BUTOXYETHANOL	203-905-0	111-76-2	1-5%	Xn;R20/21/22 Xi;R36/38
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT; KEROSENE - UNSPECIFIED	265-149-8	64742-47-8	1-5%	Xn;R65
ALKYLBENZENE SUPHLONIC ACID SODIUM SALT	285-600-2	85117-50-6	1-5%	Xn;R22. Xi;R38,R41.

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

COMPOSITION COMMENTS

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels

4 FIRST-AID MEASURES

NOTES TO THE PHYSICIAN

Treat symptomatically

INHALATION

Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Get medical attention if any discomfort continues.

SKIN CONTACT

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

ANTI-STATIC FOAM CLEANSER

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES

Move container from fire area if it can be done without risk.

UNUSUAL FIRE & EXPLOSION HAZARDS

Aerosol cans may explode in a fire.

PROTECTIVE MEASURES IN FIRE

Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

SPILL CLEAN UP METHODS

Absorb in vermiculite, dry sand or earth and place into containers.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS

Store at moderate temperatures in dry, well ventilated area.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
2-BUTOXYETHANOL	WEL	25 ppm(Sk)	123 mg/m ³	50 ppm(Sk)		
PROPAN-2-OL	WEL	400 ppm	999 mg/m ³	500 ppm	1250 mg/m ³	

WEL = Workplace Exposure Limit.

ENGINEERING MEASURES

No particular ventilation requirements.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

HAND PROTECTION

For prolonged or repeated skin contact use suitable protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear approved chemical safety goggles where eye exposure is reasonably probable.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. DO NOT SMOKE IN WORK AREA!

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Aerosol Liquid

COLOUR

Colourless

ANTI-STATIC FOAM CLEANSER

ODOUR	Characteristic		
VOLATILITY DESCRIPTION	Volatile.		
SOLUBILITY	Insoluble in water		
BOILING POINT (°C)	>100 (212 F)	RELATIVE DENSITY	0.995 @ 20 °c (68 F)
VAPOUR PRESSURE	2.35 kPa @ 20 °c (68 F)	pH-VALUE, CONC. SOLUTION	7-8

10 STABILITY AND REACTIVITY

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with acids and alkalies.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire or high temperatures create: Carbon monoxide (CO). Hydrogen fluoride (HF). Carbonyl fluoride

11 TOXICOLOGICAL INFORMATION

GENERAL INFORMATION

No specific health warnings noted.

INHALATION

High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

Get medical attention if any discomfort continues.

SKIN CONTACT

No specific health warnings noted.

EYE CONTACT

May cause temporary eye irritation.

OTHER HEALTH EFFECTS

This substance has no evidence of carcinogenic properties.

Name	PROPAN-2-OL
Toxic Dose 1 - LD 50	5045 mg/kg (oral rat)
Toxic Dose 2 - LD 50	3600 mg/kg (oral-mouse)
Toxic Conc. - LC 50	47-73 mg/l/4h (inh-rat)
Name	2-BUTOXYETHANOL
Toxic Dose 1 - LD 50	1480 mg/kg (oral rat)

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Not regarded as dangerous for the environment.

Name	PROPAN-2-OL
LC 50, 96 Hrs, FISH mg/l	9600
EC 50, 48 Hrs, DAPHNIA, mg/l	10000
Name	2-BUTOXYETHANOL
LC 50, 96 Hrs, FISH mg/l	1700
EC 50, 48 Hrs, DAPHNIA, mg/l	>1000
IC 50, 72 Hrs, ALGAE, mg/l	500
Name	DISTILLATES (PETROLEUM), HYDROTREATED LIGHT; KEROSENE - UNSPECIFIED
LC 50, 96 Hrs, FISH mg/l	>1000
EC 50, 48 Hrs, DAPHNIA, mg/l	>250
IC 50, 72 Hrs, ALGAE, mg/l	20

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

ANTI-STATIC FOAM CLEANSER



UK ROAD CLASS	2		
PROPER SHIPPING NAME	AEROSOLS		
UN NO. ROAD	1950	UK ROAD PACK GR.	N/A
ADR CLASS NO.	2	ADR CLASS	Class 2: Gases
ADR PACK GROUP	N/A	TUNNEL RESTRICTION CODE	(E)
ADR LABEL NO.	2.2	CEPIC TEC(R) NO.	20G5A, 20G5O
RID CLASS NO.	2	RID PACK GROUP	N/A
UN NO. SEA	1950	IMDG CLASS	2.2
IMDG PAGE NO.	9022	IMDG PACK GR.	N/A
EMS	F-D, S-U	MFAG	See Guide
MARINE POLLUTANT	No.	UN NO. AIR	1950
AIR CLASS	2.2	AIR PACK GR.	N/A

15 REGULATORY INFORMATION

RISK PHRASES

NC Not classified.

SAFETY PHRASES

A1 Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
A2 Do not spray on a naked flame or any incandescent material.
S2 Keep out of the reach of children
S23 Do not breathe vapour/spray.

UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations.

The Control of Substances Hazardous to Health Regulations 1988.

ENVIRONMENTAL LISTING

Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980.

EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC.

Dangerous Preparations Directive 1999/45/EC.

Dangerous Substance Directive 67/548/EEC.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

16 OTHER INFORMATION

ANTI-STATIC FOAM CLEANSER

ISSUED BY

Pawel Zmarzly

REVISION DATE NOVEMBER 2009

REV. NO./REPL. SDS 4

GENERATED

SDS NO. 10628

RISK PHRASES IN FULL

R11	Highly flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R65	Harmful: may cause lung damage if swallowed.
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 any 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.

Air Duster

Product Code: EAD/EADI

PRODUCT DESCRIPTION

Electrolube's Airduster aerosols of pure, compressed, inert gas are designed for the safe removal of dust and airborne contamination from very delicate or inaccessible areas of electrical and electronic equipment. **Electrolube's Airdusters** are non-flammable, non-CFC and non-HCFC products. The range includes an **Invertible Airduster (EADI)** which is particularly useful for very intricate equipment or items which can not be moved for cleaning or maintenance.

PRODUCT USE

Can be used to remove dust and airborne contamination from all electrical and electronic equipment, e.g. computers, typewriters, control equipment etc. It can also be used on such items as cameras and Hi-Fi equipment. Airduster can also be used to evacuate air from the top of cans of paint etc. to stop skin forming.

FEATURES

- * Pure compressed inert gas
- * High pressure removes contamination easily and quickly
- * Packed in high pressure, one part Aluminium cans for maximum safety

DIRECTIONS FOR USE

EAD should be used in a vertical position or at an angle of not greater than 60° to the vertical otherwise a freezing effect will result. If it is necessary to tilt the aerosol more than this, use the Invertible version (EADI) as listed below.

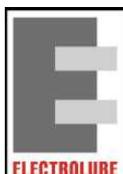
Caution Do not use an **Airduster** for prolonged blasts as the surface of the can will form frost.

TECHNICAL
DATA
SHEET



**Copyright
Electrolube
2003**

All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification. Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.



Air Duster – Page 2

TECHNICAL DATA SHEET



TYPICAL PROPERTIES

EAD(I)200D / 400D

Form:	Colourless Gas
Density (liquid):	1.13
Flashpoint:	None
Boiling Point:	-26.2°C
Ozone Depleting Potential:	0.00

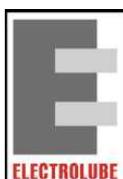
PACKAGING

ORDER CODE

200ml Aerosol	EAD200D and S
400ml Aerosol	EAD400D and S
200ml Invertible Aerosol	EADI200D and S

Copyright Electrolube 2003

All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification. Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.





SAFETY DATA SHEET AIRDUSTER AEROSOL

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

PRODUCT NAME AIRDUSTER AEROSOL
PRODUCT NO. EAD200D [EEAD200D]
APPLICATION Cleaning Product
SUPPLIER AF INTERNATIONAL. A division
of HK WENTWORTH LTD
KINGSBURY PARK,
MIDLAND ROAD,
SWADLINCOTE
DERBYSHIRE DE11 0AN
UNITED KINGDOM
+44 (0) 1283 222111
+44 (0) 1283 550177
info@hkw.co.uk
EMERGENCY TELEPHONE +44(0)1283 222 111 between 8.30 am - 5.00pm Mon - Fri

2 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

PHYSICAL AND CHEMICAL HAZARDS

Aerosol containers can explode when heated, due to excessive pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
DIMETHYL ETHER	204-065-8	115-10-6	5-10%	F+;R12

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

COMPOSITION COMMENTS

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels. Ingredients are registered on AICS.

4 FIRST-AID MEASURES

NOTES TO THE PHYSICIAN

Treat symptomatically

INHALATION

Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

DO NOT INDUCE VOMITING! Rinse mouth thoroughly.

SKIN CONTACT

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

AIRDUSTER AEROSOL

SPECIAL FIRE FIGHTING PROCEDURES

Move container from fire area if it can be done without risk.

UNUSUAL FIRE & EXPLOSION HAZARDS

Aerosol cans may explode in a fire.

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

Absorb in vermiculite, dry sand or earth and place into containers.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS

Store at moderate temperatures in dry, well ventilated area.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
DIMETHYL ETHER	WEL	400 ppm	766 mg/m ³	500 ppm	958 mg/m ³	

WEL = Workplace Exposure Limit.

ENGINEERING MEASURES

No particular ventilation requirements.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. **DO NOT SMOKE IN WORK AREA!**

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Aerosol Liquid		
COLOUR	Colourless		
ODOUR	Characteristic		
VOLATILITY DESCRIPTION	Volatile.		
SOLUBILITY	Insoluble in water		
BOILING POINT (°C)	-26.5 (-15.7 F)	RELATIVE DENSITY	1.13 @ 25 °c (77 F)
VAPOUR PRESSURE	449 kPa @ 20 °c (68 F)		

10 STABILITY AND REACTIVITY

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with acids and alkalies.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire or high temperatures create: Carbon monoxide (CO). Hydrogen fluoride (HF). Carbonyl fluoride

11 TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION

No information available.

GENERAL INFORMATION

No specific health warnings noted.

INHALATION

High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

AIRDUSTER AEROSOL

INGESTION

DO NOT INDUCE VOMITING! Rinse mouth thoroughly.

SKIN CONTACT

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

HEALTH WARNINGS

Contact with liquid form may cause frostbite.

OTHER HEALTH EFFECTS

This substance has no evidence of carcinogenic properties.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Not regarded as dangerous for the environment.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION



UK ROAD CLASS	2		
PROPER SHIPPING NAME	AEROSOLS		
UN NO. ROAD	1950	UK ROAD PACK GR.	N/A
ADR CLASS NO.	2	ADR CLASS	Class 2: Gases
ADR PACK GROUP	N/A	TUNNEL RESTRICTION CODE	(E)
ADR LABEL NO.	2.2	CEFIC TEC(R) NO.	20G5A, 20G50
RID CLASS NO.	2	RID PACK GROUP	N/A
UN NO. SEA	1950	IMDG CLASS	2.2
IMDG PAGE NO.	9022	IMDG PACK GR.	N/A
EMS	F-D, S-U	MFAG	See Guide
MARINE POLLUTANT	No.	UN NO. AIR	1950
AIR CLASS	2.2	AIR PACK GR.	N/A

15 REGULATORY INFORMATION

RISK PHRASES

NC Not classified.

SAFETY PHRASES

A1 Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
A2 Do not spray on a naked flame or any incandescent material.
S2 Keep out of the reach of children
S23 Do not breathe vapour/spray.

UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations.

AIRDUSTER AEROSOL

The Control of Substances Hazardous to Health Regulations 1988.

ENVIRONMENTAL LISTING

Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

16 OTHER INFORMATION

REVISION COMMENTS

Revised in accordance with CHIP3 and EU Directives 1999/45/EC and 2001/58/EC

ISSUED BY

Helen O'Reilly

REVISION DATE

NOVEMBER 2009

REV. NO./REPL. SDS

6

GENERATED

SDS NO.

10348

RISK PHRASES IN FULL

R12

Extremely flammable.

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 any 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.

Label Remover

Product Code: LRM

PRODUCT DESCRIPTION

Label Remover has been specially formulated for the quick and efficient removal of paper based pressure sensitive adhesive labels. **LRM** is 100% Ozone Friendly.

PRODUCT USE

For the removal of pressure sensitive adhesive labels from a variety of surfaces. Product contains combustible solvent so do not spray onto live electrical equipment or other sources of ignition.

Spray or wipe on, leave in contact for 5 minutes and then peel off label. Wipe surface clean.

FEATURES

- * Non-CFC, non-halogenated solvent which will not attack Ozone Layer.
- * Allows label to be simply peeled off without leaving adhesive residue or scratching surface.
- * Harmless to most plastics, rubbers, elastomers, and surface coatings when used as directed. Test sensitive plastics on a small area first, and do not use on polystyrene.
- * CO₂ propelled aerosol version available containing 20% more active cleaner, fitted with a 360° valve for use in any orientation.

TYPICAL PROPERTIES

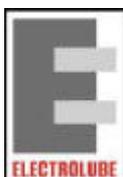
Specific Gravity @ 20°C:	0.830(LRM01L), 0.79(LRM200D)
Inhalation Toxicity:	300 ppm
Residue on Evaporation:	<1ppm

TECHNICAL
DATA
SHEET



Copyright Electrolube 2003

All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification. Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.



Label Remover – Page 2

PACKAGING

12ml Pen (Pack of 5 Pens)
200ml Aerosol
200ml Aerosol with Brush
1 Litre Bulk

ORDER CODE

LRM12P
LRM200D
LRM200DB
LRM01L

NATO Stock no (LRM200D): 8010-99-810-4705

TECHNICAL
DATA
SHEET



Copyright Electrolube 2003

All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification. Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.





SAFETY DATA SHEET LABEL REMOVER 200ML

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

PRODUCT NAME LABEL REMOVER 200ML
PRODUCT NO. LRM200D [ELRM200D]
APPLICATION Manufacture of electrical equipment
SUPPLIER ELECTROLUBE. A division of
HK WENTWORTH LTD
KINGSBURY PARK, MIDLAND
ROAD
SWADLINCOTE
DERBYSHIRE, DE11 0AN
UNITED KINGDOM
+44(0)1283 222 111
+44(0)1283 550 177
info@hkw.co.uk
EMERGENCY TELEPHONE +44(0)1283 222 111 between 8.30 am - 5.00pm Mon - Fri

2 HAZARDS IDENTIFICATION

Flammable.

Irritating to skin.

May cause sensitisation by skin contact.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION Xi;R38. R43. N;R50/53. R10.

ENVIRONMENT

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Dispose of waste and residues in accordance with local authority requirements.

PHYSICAL AND CHEMICAL HAZARDS

Aerosol containers can explode when heated, due to excessive pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
d-LIMONENE	227-813-5	5989-27-5	10-30%	R10 R43 Xi;R38 N;R50/53
C11-C15 ISO-ALKANES	292-460-6	90622-58-5	10-30%	Xn;R65. R66.
C9-C12 ISO-ALKANES	292-459-0	90622-57-4	10-30%	Xn;R65. R66,R53.
3-BUTOXYPROPAN-2-OL	225-878-4	5131-66-8	10-30%	Xi;R36/38

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

COMPOSITION COMMENTS

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels

4 FIRST-AID MEASURES

NOTES TO THE PHYSICIAN

Treat symptomatically

INHALATION

Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

LABEL REMOVER 200ML

INGESTION

Immediately rinse mouth and provide fresh air.

SKIN CONTACT

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

SPECIAL FIRE FIGHTING PROCEDURES

Move container from fire area if it can be done without risk.

UNUSUAL FIRE & EXPLOSION HAZARDS

Aerosol cans may explode in a fire.

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

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

Keep away from heat, sparks and open flame. Provide good ventilation.

STORAGE PRECAUTIONS

Store at moderate temperatures in dry, well ventilated area.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
3-BUTOXYPROPAN-2-OL	SUP	50 ppm				
C11-C15 ISO-ALKANES			1200 mg/m3			
C9-C12 ISO-ALKANES			1200 mg/m3			

ENGINEERING MEASURES

Provide adequate ventilation. Observe Workplace Exposure Limits and minimise the risk of inhalation of vapours.

RESPIRATORY EQUIPMENT

In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment. Check that mask fits tight and change filter regularly. Use respiratory equipment with gas filter, type A2.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact. Gloves of nitrile rubber, PVA or Viton are recommended. Gloves should conform to EN374

EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. DO NOT SMOKE IN WORK AREA!

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Aerosol Liquid

LABEL REMOVER 200ML

COLOUR	Colourless		
ODOUR	Lemon		
VOLATILITY DESCRIPTION	Volatile.		
SOLUBILITY	Insoluble in water		
BOILING POINT (°C)	173 - 193 (343.4 - 379.4F)	RELATIVE DENSITY	0.790 @ 20 °c (68 F)
VAPOUR PRESSURE	0.5 kPa @ 38 °c (100.4 F)	FLASH POINT (°C)	52 (125.6 F)
AUTO IGNITION	> 200 (392 F)	FLAMMABILITY LIMIT - LOWER(%)	0.6
TEMPERATURE (°C)			
FLAMMABILITY LIMIT - UPPER(%)	7.0		

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with acids and alkalies.

11 TOXICOLOGICAL INFORMATION

INHALATION

Vapours may cause headache, fatigue, dizziness and nausea. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

SKIN CONTACT

Irritating to skin. May cause sensitisation by skin contact. Prolonged or repeated exposure may cause severe irritation.

EYE CONTACT

Irritating to eyes.

ROUTE OF ENTRY

Skin and/or eye contact. Inhalation.

Name	3-BUTOXYPROPAN-2-OL
Toxic Dose 1 - LD 50	2612-5500 mg/kg (oral rat)
Name	d-LIMONENE
Toxic Dose 1 - LD 50	>5000 mg/kg (oral rat)

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Dangerous for the environment if discharged into watercourses.

WATER HAZARD CLASSIFICATION

WGK 2

Name	3-BUTOXYPROPAN-2-OL
LC 50, 96 Hrs, FISH mg/l	560-1000
EC 50, 48 Hrs, DAPHNIA, mg/l	>1000
Name	d-LIMONENE
EC 50, 48 Hrs, DAPHNIA, mg/l	12.3
Mobility	

The product has poor water-solubility.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

LABEL REMOVER 200ML



UK ROAD CLASS	2		
PROPER SHIPPING NAME	AEROSOLS (d-LIMONENE)		
UN NO. ROAD	1950	UK ROAD PACK GR.	N/A
ADR CLASS NO.	2	ADR CLASS	Class 2: Gases
ADR PACK GROUP	N/A	TUNNEL RESTRICTION CODE	(D)
ADR LABEL NO.	2.1	CEFIC TEC(R) NO.	20G5F
RID CLASS NO.	2	RID PACK GROUP	N/A
UN NO. SEA	1950	IMDG CLASS	2.1
IMDG PACK GR.	N/A	EMS	F-D, S-U
MFAG	See Guide	MARINE POLLUTANT	No.
UN NO. AIR	1950	AIR CLASS	2.1
AIR PACK GR.	N/A		

15 REGULATORY INFORMATION

SYMBOLS



Irritant



Dangerous for the environment

CONTAINS d-LIMONENE

RISK PHRASES

R10	Flammable.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

A1	Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
A2	Do not spray on a naked flame or any incandescent material.
S2	Keep out of the reach of children
S23	Do not breathe vapour/spray.
S24	Avoid contact with skin.
S37	Wear suitable gloves.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.

UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations.

The Control of Substances Hazardous to Health Regulations 1988.

ENVIRONMENTAL LISTING

Rivers (Prevention of Pollution) Act 1961. Control of Pollution Act 1974. Control of Pollution (Special Waste Regulations) Act 1980.

EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC.

Dangerous Substance Directive 67/548/EEC.

LABEL REMOVER 200ML

Dangerous Preparations Directive 1999/45/EC.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

16 OTHER INFORMATION

REVISION COMMENTS

Revised in accordance with CHIP3 and EU Directives 1999/45/EC and 2001/58/EC

ISSUED BY

Pawel Zmarzly

REVISION DATE NOVEMBER 2009

REV. NO./REPL. SDS 3

GENERATED

SDS NO. 10525

RISK PHRASES IN FULL

R10	Flammable.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.

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 any 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.