



# Technical Data Sheet

## CCRG Conformal Coating Remover Gel

### Product Description

CCRG thixotropic gel has been specifically formulated to remove Electrolube's solvent resistant coatings: DCA, DCB, DCR, DCRT, DCE, NVOC, WBP/S and PUC. The product does not contain methylene chloride.

<b>Approvals:</b>	<b>RoHS Compliant (2002/95/EC):</b>	<b>Yes</b>
<b>Liquid Properties:</b>	<b>Appearance:</b>	Colourless Gel
	<b>Specific Gravity (Density) @ 20°C:</b>	0.950 g/ml
	<b>VOC Content:</b>	98%
	<b>Flash Point:</b>	-17°C CC (Closed cup)
	<b>Flammability:</b>	Flammable

### Directions For Use

A small area of the board should be selected (30 x 30mm), CCRG should then be applied using a brush or syringe. CCRG will then start to attack the coating lifting it from the surface, after which the gel should be wiped off or promptly rinsed off with deionised water – do not allow the gel to fully dry out.

This method should be repeated until the required area is clean.

CCRG will not generally damage metals; however, there may be some corrosion on ferrous metals if materials are soaked for prolonged periods. CCRG will attack several plastics and also remove component identification markings if prolonged exposure is permitted. If a possibly sensitive plastic is to be exposed to the gel, a sample area should be tested prior to full-scale usage.

CCRG is highly flammable so care must be taken when using this material. Refer to the Material Safety Data Sheet for additional information.

### Packaging

### Order Code

### Shelf Life

1 Litre

CCRG01L

36 Months

Rev: 1 (June 11)

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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 CONFORMAL COATING REMOVER GEL

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

PRODUCT NAME CONFORMAL COATING REMOVER GEL  
PRODUCT NO. CCRG-b  
ECCRG01L  
ZE  
SUPPLIER ELECTROLUBE. A division of  
HK WENTWORTH LTD  
ASHBY PARK, COALFIELD  
WAY,  
ASHBY DE LA ZOUCH,  
LEICESTERSHIRE LE65 1JF  
UNITED KINGDOM  
+44 (0)1530 419600  
+44 (0)1530 416640  
info@hkw.co.uk  
EMERGENCY TELEPHONE +44 (0)1530 419600 between 8.30am - 5.00pm Mon – Fri

### 2 HAZARDS IDENTIFICATION

Highly flammable.  
Repeated exposure may cause skin dryness or cracking.  
Vapours may cause drowsiness and dizziness.  
Irritating to eyes.  
CLASSIFICATION (1989/45) Xi;R36. F;R11. R66, R67.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC-No.	CAS-No.	Content %	Classification (67/548/EEC)
BUTANONE	201-159-0	78-93-3	30-60%	F;R11 Xi;R36 R66 R67
ACETONE	200-662-2	67-64-1	5-10%	F;R11 Xi;R36 R66 R67

The Full Text for all R-Phrases is 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

#### 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! Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Rinse mouth thoroughly. Get medical attention.

#### SKIN CONTACT

Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

#### 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: Alcohol resistant foam. Powder. Dry chemicals, sand, dolomite etc.

## CONFORMAL COATING REMOVER GEL

### SPECIAL FIRE FIGHTING PROCEDURES

Move container from fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours.

### 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. Wear necessary protective equipment.

### 7 HANDLING AND STORAGE

#### USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

#### STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

#### STORAGE CLASS

Flammable liquid storage.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
ACETONE	WEL	500	1210	1500	3620	
BUTANONE	WEL	200	600	300	899	Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

#### PROTECTIVE EQUIPMENT



#### ENGINEERING MEASURES

Provide sufficient ventilation during operations which cause vapour formation.

#### RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

#### HAND PROTECTION

Use 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 safety goggles.

#### HYGIENE MEASURES

**DO NOT SMOKE IN WORK AREA!** Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. When using do not eat, drink or smoke.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid
COLOUR	Colourless
ODOUR	Characteristic
FLASH POINT (°C)	-17 (1.4 F) CC (Closed cup).

### 10 STABILITY AND REACTIVITY

#### STABILITY

Stable under normal temperature conditions.

## CONFORMAL COATING REMOVER GEL

### CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

### 11 TOXICOLOGICAL INFORMATION

#### INHALATION

May cause irritation to the respiratory system.

#### INGESTION

May cause stomach pain or vomiting.

#### SKIN CONTACT

Product has a defatting effect on skin. Prolonged or repeated exposure may cause severe irritation.

#### EYE CONTACT

Irritating to eyes.

Name	ACETONE
Toxic Dose 1 - LD 50	5800 mg/kg (oral rat)
Toxic Dose 2 - LD 50	20,000 mg/kg (oral-rbt)
Toxic Conc. - LC 50	76 ppm/4h (inh-rat)

### 12 ECOLOGICAL INFORMATION

#### ECOTOXICITY

Not regarded as dangerous for the environment.

Name	ACETONE
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LC 50, 96 Hrs, Fish mg/l	5540
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EC 50, 48 Hrs, Daphnia, mg/l	39
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#### Degradability

The product is easily biodegradable.

Name	BUTANONE
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LC 50, 96 Hrs, Fish mg/l	3200 - 5600
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EC 50, 48 Hrs, Daphnia, mg/l	7060
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#### Mobility

The product is soluble in water.

#### Bioaccumulative Potential

No data available on bioaccumulation.

#### Degradability

The product is easily biodegradable.

#### Acute Fish Toxicity

Not considered toxic to fish.

### 13 DISPOSAL CONSIDERATIONS

#### DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

### 14 TRANSPORT INFORMATION



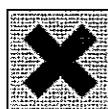
PROPER SHIPPING NAME	FLAMMABLE LIQUID, N.O.S. (1, 3-DIOXOLANE, BUTANONE)
PROPER SHIPPING NAME	CONSUMER COMMODITY
ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT	No.
UN NO. ROAD	1993
ADR CLASS NO.	3

## CONFORMAL COATING REMOVER GEL

ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	II
TUNNEL RESTRICTION CODE	(D/E)
HAZARD No. (ADR)	33
ADR LABEL NO.	3
HAZCHEM CODE	•3YE
UN NO. SEA	1993
IMDG CLASS	3
IMDG PACK GR.	II
EMS	F-E, S-E
UN NO. AIR	1993
AIR CLASS	3
AIR PACK GR.	II

### 15 REGULATORY INFORMATION

#### LABELLING



Irritant



Highly Flammable

#### RISK PHRASES

R11	Highly flammable.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

#### SAFETY PHRASES

S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S25	Avoid contact with eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37	Wear suitable gloves.
S51	Use only in well-ventilated areas.

#### UK REGULATORY REFERENCES

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.  
Chemicals (Hazard Information & Packaging) Regulations.

#### ENVIRONMENTAL LISTING

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

#### EU DIRECTIVES

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

Dangerous Substance Directive 67/548/EEC.

Dangerous Preparations Directive 1999/45/EC.

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. Safety Data Sheets for Substances and Preparations.

## CONFORMAL COATING REMOVER GEL

### GUIDANCE NOTES

Workplace Exposure Limits EH40.

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### 16 OTHER INFORMATION

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#### REVISION COMMENTS

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

#### ISSUED BY

Pawel Zmarzly

REVISION DATE JUNE 2011

REV. NO./REPL. SDS 0

GENERATED

SDS NO. 13184

#### RISK PHRASES IN FULL

R11	Highly flammable.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

#### DISCLAIMER

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