

**CP1190 v1.0 RS 132-475, 132-481****SAFETY DATA SHEET  
ELECTRICAL SOLVENT CLEANER PLUS**

RS REACH MSDS Date 01/06/07

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

PRODUCT NAME ELECTRICAL SOLVENT CLEANER PLUS  
 PRODUCT NO. 132-475  
 Supplier: RS Components Ltd,  
 Birchington Road,  
 Corby,  
 Northants,  
 NN17 9RS.  
 Tel +44 (0) 1536 402888  
 Fax: +44 (0) 1536 401588

**2 HAZARDS IDENTIFICATION**

Extremely flammable. Vapours may cause drowsiness and dizziness. Irritating to skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION Xi;R38. F+;R12. N;R51/53. R67.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Name	EC No.	CAS-No.	Content	Classification
BUTANE	203-448-7	106-97-8	10-30%	F+;R12
ISOBUTANE	200-857-2	75-28-5	5-10%	F+;R12
NAPHTHA (PETROLEUM) , HYDROTREATED LIGHT	265-151-9	64742-49-0	60-100%	Xn;R65. Xi;R38. F;R11. N;R51/53. R67.
PROPANE	200-827-9	74-98-6	5-10%	F+;R12

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

**4 FIRST-AID MEASURES****GENERAL INFORMATION**

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

**INHALATION**

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

**INGESTION**

DO NOT INDUCE VOMITING! Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Get medical attention if any discomfort continues.

**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**

Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.

**UNUSUAL FIRE & EXPLOSION HAZARDS**

Aerosol cans may explode in a fire.

**6 ACCIDENTAL RELEASE MEASURES****SPILL CLEAN UP METHODS**

Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Let evaporate. Keep out of confined spaces because of explosion risk. If leakage cannot be stopped, evacuate area.

**7 HANDLING AND STORAGE**

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**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**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
BUTANE	WEL	600 ppm	1450 mg/m3	750 ppm	1810 mg/m3
ISOBUTANE	WEL	800 ppm		800 ppm	
NAPHTHA (PETROLEUM) , HYDROTREATED LIGHT			1200 mg/m3		
PROPANE		Asphyxiating	Asphyxiating	Asphyxiating	Asphyxiating

**INGREDIENT COMMENTS**

WEL = Workplace Exposure Limits

**PROTECTIVE EQUIPMENT**



**ENGINEERING MEASURES**

Provide adequate general and local exhaust ventilation.

**RESPIRATORY EQUIPMENT**

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit. Use chemical cartridge protection with appropriate cartridge.

**HAND PROTECTION**

Use protective gloves.

**EYE PROTECTION**

Use approved safety goggles or face shield.

**OTHER PROTECTION**

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

**HYGIENE MEASURES**

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Aerosol	
COLOUR	Colourless	
ODOUR	Characteristic	
FLAMMABILITY LIMIT - LOWER(%)	0.8	FLAMMABILITY LIMIT - UPPER(%) 9.0

**10 STABILITY AND REACTIVITY**

**STABILITY**

Stable under normal temperature conditions.

**CONDITIONS TO AVOID**

Avoid heat, flames and other sources of ignition. Avoid contact with: Strong oxidising agents. Strong alkalis. Strong mineral acids.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

**11 TOXICOLOGICAL INFORMATION**

**INHALATION**

May cause irritation to the respiratory system. Vapours may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system. Irritating to respiratory system.

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**INGESTION**

May cause discomfort if swallowed. May cause stomach pain or vomiting. Gastrointestinal symptoms, including upset stomach.

**SKIN CONTACT**

Prolonged or repeated exposure may cause severe irritation. Acts as a defatting agent on skin. May cause cracking of skin, and eczema. May cause allergic contact eczema. May cause sensitisation by skin contact. Irritating to skin.

**EYE CONTACT**

Irritating to eyes. May cause chemical eye burns.

**ROUTE OF ENTRY**

Inhalation. Skin and/or eye contact.

**12 ECOLOGICAL INFORMATION**

**ECOTOXICITY**

Dangerous for the environment if discharged into watercourses.

**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	UK ROAD PACK GR.	Not Applicable
PROPER SHIPPING NAME	AEROSOLS	ADR CLASS	Class 2: Gases
UN NO. ROAD	1950	ADR LABEL NO.	2.1
ADR CLASS NO.	2	RID PACK GROUP	Not Applicable
ADR PACK GROUP	Not Applicable	IMDG CLASS	2.1
RID CLASS NO.	2	EMS	F-D, S-U
UN NO. SEA	1950	MARINE POLLUTANT	No.
IMDG PACK GR.	Not Applicable	AIR CLASS	2.1
MFAG	See Guide		
UN NO. AIR	1950		
AIR PACK GR.	Not Applicable		

**15 REGULATORY INFORMATION**

**LABELLING**



Irritant



Extremely Flammable



Dangerous for the environment

**RISK PHRASES**

R12	Extremely flammable.
R38	Irritating to skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

**SAFETY PHRASES**

S16	Keep away from sources of ignition - No smoking.
S23	Do not breathe vapour/spray.

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S24	Avoid contact with skin.
S60	This material and its container must be disposed of as hazardous waste.
S2	Keep out of the reach of children
S51	Use only in well-ventilated areas.

### UK REGULATORY REFERENCES

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002.

The Control of Substances Hazardous to Health Regulations 2002.

### STATUTORY INSTRUMENTS

The Control of Substances Hazardous to Health Regulations 2002.

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002.

### APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

### GUIDANCE NOTES

Workplace Exposure Limits EH40.

Introduction to Local Exhaust Ventilation HS(G)37.

CHIP for everyone HSG(108).

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## 16 OTHER INFORMATION

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REV. NO./REPL. SDS GENERATED 2

### RISK PHRASES IN FULL

R11	Highly flammable.
R12	Extremely flammable.
R38	Irritating to skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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.

## INITIAL SUBSTANCE COSHH ASSESSMENT

Department		MSDS Ref No	UWL 213	Assessment Ref	S213-2
Engineering					
Chemical Name		Risk Phrases			
Electrical Solvent Cleaner Plus		R38 Irritating to skin			
		R67 Vapours may cause drowsiness and dizziness			
Classification	Irritant				
Hazard Group	<b>A</b>		Exposure Limits - Dusts	N/A	
			Exposure Limits - Liquid	>50 to 500 ppm	
Least Hazardous Substances		More Hazardous Substances		Special Case	
A		B		C	D
				E	

Exposure Potential	
Frequency of Use	Infrequently
Physical Properties	Medium Volatility Liquid
Max Amount Used	Small - Millilitres
Exposure Predictor	2 – Millilitres of medium volatility liquid
Control Measures	1 – General
Predicted Concentration (COSHH ESSENTIALS)	
Dust mg.m <sup>-3</sup>	Liquid ppm
N/A	5 to 50

Personal Protective Equipment		Answer	Type
1	Are gloves required to be worn	Yes	Nitrile
2	Is protective clothing required	Yes	Cotton
3	Is safety eyewear required	Yes	Goggles
4	Is safety footwear required	Yes	
5	Is head protection required	No	
6	Is hearing protection required when working in this area	Yes	
7	Is respiratory protective equipment worn currently	No	

Initial Substance Assessment Conclusion				Answer
The hazards associated with this material, the amount of material used and the frequency and duration of the activity result an extremely low likelihood that a risk to health exists when using this material under open conditions or on the open bench and using good work practice.				✓
The amount being used and the frequency and duration of exposure indicate that if used under the control of local exhaust ventilation the risks to health would be reduced to well below the exposure limits and that the potential risks to health would be low.				
Due to the hazards associated with this material the PPE identified above must be worn when handling this material in order to prevent direct skin contact. If PPE is worn in accordance with manufacturers recommendations the risks to health will be adequately controlled.				✓
The hazards associated with this material indicate that a detailed risk assessment must be completed. <b>Do not use this material unless a detailed COSHH Assessment has been completed</b>				
Assessor Name	Signature	Last Assessment Date	Assessment Reviewed Date	Next Review Date
D. Cuthbert		03/03/2010	12/04/2017	12/04/2022