

# SAFETY DATA SHEET

## ELECTRO 4 IN 1

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

**PRODUCT NAME** ELECTRO 4 IN 1  
**PRODUCT NO.** A013  
**SUPPLIER** ARROW CLEANING & HYGIENE SOLUTIONS  
RAWDON ROAD  
MOIRA, SWADLINCOTE  
DERBYSHIRE  
DE12 6DA  
01283 221044  
EMERGENCY 0777 8505 330  
FAX 01283 225731  
e-mail:sales@arrowchem.com

### 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                        |
|------------------------------------------|-----------|------------|---------|---------------------------------------|
| HYDROCARBON PROPELLANT                   | 270-704-2 | 68476-85-7 | 30-60%  | F+;R12.                               |
| PETROLEUM DISTILLATES                    | 295-529-9 | 92062-15-2 | 30-60%  | Xn;R65. Xi;R38. F;R11. N;R51/53. R67. |
| WHITE SPIRIT                             | 265-185-4 | 64742-82-1 | 5-10%   | Xn;R65. N;R51/53. R10,R66,R67.        |
| N-HEPTANE                                | 295-434-2 | 92045-53-9 | 5-10%   | Xn;R65. Xi;R38. F;R11. N;R51/53. R67. |
| PENTANE                                  | 203-692-4 | 109-66-0   | 5-10%   | F+;R12 Xn;R65 R66 R67 N;R51/53        |
| METHYL ESTER OF OXIDISED HYDROCARBON WAX | 265-204-6 | 64742-99-0 | 1-5%    | Xn;R20/22. Xi;R36. R66.               |

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

### 4 FIRST-AID MEASURES

#### INHALATION

Move the exposed person to fresh air at once.

#### INGESTION

Rinse mouth thoroughly. Get medical attention.

#### SKIN CONTACT

Rinse the skin immediately with lots of water.

#### EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention if any discomfort continues.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Fire can be extinguished using: Foam, carbon dioxide or dry powder.

#### SPECIAL FIRE FIGHTING PROCEDURES

Cool containers exposed to flames with water until well after the fire is out.

#### UNUSUAL FIRE & EXPLOSION HAZARDS

Aerosol cans may explode in a fire.

# ELECTRO 4 IN 1

## 6 ACCIDENTAL RELEASE MEASURES

### SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb with inert, damp, non-combustible material, then flush area with water.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact.

### 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 |
|------------------------|-----|-------------|------------|---------------|------------|-------|
| HYDROCARBON PROPELLANT | WEL | 600 ppm     | 1430 mg/m3 | 750 ppm       | 1780 mg/m3 |       |
| N-HEPTANE              | WEL | 1200 mg/m3  |            | 3600 mg/m3    |            |       |
| PENTANE                | WEL | 600 ppm     | 1800 mg/m3 |               |            |       |
| WHITE SPIRIT           | OES | 600 ppm     |            |               |            |       |

WEL = Workplace Exposure Limit.

### HAND PROTECTION

For prolonged or repeated skin contact use suitable protective gloves. Use protective gloves made of: Rubber, neoprene or PVC.

### EYE PROTECTION

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

## 9 PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE** Aerosol

**COLOUR** Straw

**ODOUR** Solvent.

**SOLUBILITY** Insoluble in water

**FLAMMABILITY LIMIT - LOWER(%)** 2.90

**FLAMMABILITY LIMIT - UPPER(%)** 19

## 10 STABILITY AND REACTIVITY

### CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

### MATERIALS TO AVOID

Strong oxidising substances. Strong acids.

### HAZARDOUS DECOMPOSITION PRODUCTS

Fire or high temperatures create: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## 11 TOXICOLOGICAL INFORMATION

### INGESTION

Gastrointestinal symptoms, including upset stomach.

### SKIN CONTACT

Irritating to skin.

### MEDICAL SYMPTOMS

EYES AND MUCOUS MEMBRANES. Irritation of eyes and mucous membranes.

## 12 ECOLOGICAL INFORMATION

# ELECTRO 4 IN 1

## ECOTOXICITY

Dangerous for the environment if discharged into watercourses.

## ACUTE FISH TOXICITY

Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

## 13 DISPOSAL CONSIDERATIONS

### DISPOSAL METHODS

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

## 14 TRANSPORT INFORMATION



PROPER SHIPPING NAME AEROSOLS

UN NO. ROAD 1950

TUNNEL RESTRICTION CODE (D)

IMDG CLASS 2

ADR CLASS

Class 2.1: Flammable gases.

UN NO. SEA

1950

MARINE POLLUTANT



UN NO. AIR 1950

AIR CLASS

2

## 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

|     |                                                                                     |
|-----|-------------------------------------------------------------------------------------|
| S9  | Keep container in a well-ventilated place.                                          |
| S16 | Keep away from sources of ignition - No smoking.                                    |
| S23 | Do not breathe vapour/spray.                                                        |
| S24 | Avoid contact with skin.                                                            |
| S61 | Avoid release to the environment. Refer to special instructions/safety data sheets. |
| S51 | Use only in well-ventilated areas.                                                  |

### UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations. The Carriage of Dangerous Goods by Road and Rail Regulations.

# ELECTRO 4 IN 1

## GUIDANCE NOTES

Workplace Exposure Limits EH40.

## 16 OTHER INFORMATION

### GENERAL INFORMATION

Only trained personnel should use this material.

**REVISION DATE** 03/03/2010

### RISK PHRASES IN FULL

|        |                                                                                             |
|--------|---------------------------------------------------------------------------------------------|
| R10    | Flammable.                                                                                  |
| R11    | Highly flammable.                                                                           |
| R12    | Extremely flammable.                                                                        |
| R20/22 | Harmful by inhalation and if swallowed.                                                     |
| R36    | Irritating to eyes.                                                                         |
| 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.                                                |
| R66    | Repeated exposure may cause skin dryness or cracking.                                       |
| R67    | Vapours may cause drowsiness and dizziness.                                                 |

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