SAFETY DATA SHEET
CUTTING FLUID

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product Name: CUTTING FLUID
Product No.: HDC-a
EHDC400
ZE

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Cutting liquid for thread
Uses Advised Against: At this moment in time we do not have information on use restrictions. They will be included in this safety data sheet when available.

1.3. Details of the supplier of the safety data sheet
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

1.4. Emergency telephone number
+44 (0)1530 419600 between 8.30am - 5.00pm Mon – Fri

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Human Health
In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Environment
The product is not expected to be hazardous to the environment.

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.

2.2. Label elements
Labelling

Risk Phrases: R12

Safety Phrases: A1
Pressurized 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.
CUTTING FLUID

S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition - No smoking.
S2 Keep out of the reach of children.
S23 Do not breathe vapour/spray.
S51 Use only in well-ventilated areas.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<table>
<thead>
<tr>
<th>BUTANE</th>
<th>10-30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.: 106-97-8</td>
<td>EC No.: 203-448-7</td>
</tr>
<tr>
<td>Classification (EC 1272/2008)</td>
<td>Classification (67/548/EEC)</td>
</tr>
<tr>
<td>Flam. Gas 1 - H220</td>
<td>Flammable + R12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DISTILLATES (PETROLEUM), HYDROTREATED LIGHT; KEROSINE - UNSPECIFIED</th>
<th>10-30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.: 64742-47-8</td>
<td>EC No.: 265-149-8</td>
</tr>
<tr>
<td>Classification (EC 1272/2008)</td>
<td>Classification (67/548/EEC)</td>
</tr>
<tr>
<td>Asp. Tox. 1 - H304</td>
<td>Xn;R65</td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases and Hazard Statements is Displayed in Section 16

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

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation.
Move the exposed person to fresh air at once. Provide rest, warmth and fresh air.

Ingestion
Not relevant.

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.

4.2. Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards
Extremely flammable. Forms explosive mixtures with air. May travel considerable distance to source of ignition and flash back. Aerosol cans may explode in a fire.

5.3. Advice for firefighters
CUTTING FLUID

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection.

6.2. Environmental precautions
Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or any suitable adsorbent material.

6.3. Methods and material for containment and cleaning up
Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

6.4. Reference to other sections
For personal protection, see section 8. See section 11 for additional information on health hazards. Collect and dispose of spillage as indicated in section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
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.

7.2. Conditions for safe storage, including any incompatibilities
Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Pressurised container: Must not be exposed to temperatures above 50°C.

7.3. Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>STD</th>
<th>TWA - 8 Hrs</th>
<th>STEL - 15 Min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUTANE</td>
<td>WEL</td>
<td>600 ppm</td>
<td>1450 mg/m³</td>
<td>750 ppm</td>
</tr>
</tbody>
</table>

WEL = Workplace Exposure Limit.

Ingredient Comments
WEL = Workplace Exposure Limits

8.2. Exposure controls

Engineering Measures
All handling to take place in well-ventilated area.

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 suitable protective gloves if risk of skin contact. 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, tight fitting safety glasses where splashing is probable.

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.

When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties
CUTTING FLUID

Appearance: Aerosol Liquid
Colour: Colourless
Odour: Oil smell
Solubility: Insoluble in water
Flash Point (°C): <0 (32 F) CC (Closed cup).
Auto Ignition Temperature (°C): 40-580
Flammability Limit - Lower(%): 1.8
Flammability Limit - Upper(%): 9.5

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid


10.5. Incompatible materials

10.6. Hazardous decomposition products

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological Information
No information available.

General Information
Deliberate concentrating and inhaling the contents of this container is dangerous and can be fatal

Inhalation
Vapour from this chemical can be hazardous when inhaled. In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.

Ingestion.
Not relevant.

Skin Contact
Skin irritation is not anticipated when used normally. Repeated exposure may cause skin dryness or cracking.

Eye Contact
Particles in the eyes may cause irritation and smarting.

Route of entry
Inhalation.

Target Organs
Respiratory system, lungs Central nervous system

Medical Symptoms
Skin irritation. Arrhythmia, (deviation from normal heart beat). Drowsiness, dizziness, disorientation, vertigo.

<table>
<thead>
<tr>
<th>Name</th>
<th>BUTANE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxic Conc. - LC 50</td>
<td>658 mg/l/4h (inh-rat)</td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:
Not regarded as dangerous for the environment. The product is not expected to be toxic to aquatic organisms.

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential
CUTTING FLUID

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

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

SECTION 14: TRANSPORT INFORMATION

General

This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1litre packed in cartons of less than 30kg gross to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed must show the following

14.1. UN number

UN No. (ADR/RID/ADN) 1950
UN No. (IMDG) 1950
UN No. (ICAO) 1950

14.2 UN Proper shipping name

Proper Shipping Name CONSUMER COMMODITY
Proper Shipping Name AEROSOLS

14.3 Transport hazard class(es)

ADR/RID/ADN Class 2
ADR/RID/ADN Class Class 2: Gases
ADR Label No. 2.1
IMDG Class 2.1
ICAO Class/Division 2.1
Transport Labels

14.4. Packing group

ADR/RID/ADN Packing group N/A
IMDG Packing group N/A
ICAO Packing group N/A

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant No.

14.6. Special precautions for user

EMS F-D, S-U

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
**CUTTING FLUID**

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

**Environmental Listing**

**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.

**EU Legislation**
Dangerous Substance Directive 67/548/EEC.
Dangerous Preparations Directive 1999/45/EC.
System of specific information relating to Dangerous Preparations. 2001/58/EC.

**15.2. Chemical Safety Assessment**

**SECTION 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**
JULY 2011

**Revision**
4

**SDS No.**
11000

**Risk Phrases In Full**
R12 Extremely flammable.
R65 Harmful: may cause lung damage if swallowed.

**Hazard Statements In Full**
H220 Extremely flammable gas.
H304 May be fatal if swallowed and enters airways.

**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.