



***EXCELLENCE IN LUBRICANTS***

## ***SAFETY DATA SHEET***

**EDM 1 Spark Erosion Fluid**



**EXOL LUBRICANTS LIMITED**

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# EDM 1 Spark Erosion Fluid

Product Code: L027

## SECTION 1 IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF COMPANY/UNDERTAKING

1.1 Product Identifier	EDM 1 Spark Erosion Fluid
Product Code	L027
1.2 Relevant identified uses of the substance or mixture and uses advised against	EDM fluid Do not use in any other application.
1.3 Company	Exol Lubricants Limited All Saints Road Wednesbury, West Midlands, WS10 9TS
1.4 Emergency Telephone Number	+44 (0) 121 568 6800 (Monday – Friday 08.30 – 17.00 hrs GMT)
1.5 Other Information	Preparation Date: 26/02/2015

## SECTION 2 HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture	<b>CLP Classification:</b> Aspiration toxicant, Hazard Category 1; H304 EUH066  <i>See section 16 for full text of H and R phrases</i>
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Not classified as dangerous for the Environment

### Classification to DPD (1999/45/EC) and CHIP

Xn, R65, Harmful  
R66

2.2 Label Elements	Labelling in accordance with CLP
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### DANGER

(H304) May be fatal if swallowed and enters airways  
(EUH066) Repeated exposure may cause skin dryness or cracking

(P301)+(P310) If swallowed: Immediately call a POISON CENTRE or doctor/physician

(P331) DO NOT induce vomiting

(P405) Store locked up

(P501) Dispose of contents and container in accordance with local regulations.

Labelling in accordance with CHIP



R65: Harmful; may cause lung damage if swallowed

R66: Repeated exposure may cause skin dryness or cracking

2.3 Other Hazards	S62: If swallowed, do not induce vomiting, seek medical advice immediately and show this container or label. Material can accumulate static charges which may cause an ignition. Material can release vapours that readily form flammable mixtures. Vapour accumulation could flash and/or explode if ignited. PBT: This substance is not identified as a PBT or vPvB substance.
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## SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 Mixtures Hazardous Ingredients	EC No.	REACH Reg. No.	GHS Classification	DSD Classification	Conc. %
Distillates (Petroleum), Hydrotreated Light; Kerosene - Unspecified	265-149-8		Asp. Tox. 1; H304 EUH066	Xn; R65, R66	>99%

## SECTION 4 FIRST AID MEASURES

- 4.1 Description of first aid measures**
- |                   |  |
|-------------------|--|
| <b>Eyes</b>       | Flush thoroughly with water. If irritation occurs, get medical assistance.   |
| <b>Skin</b>       | Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.  |
| <b>Ingestion</b>  | Seek immediate medical attention. Do not induce vomiting.  |
| <b>Inhalation</b> | Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation. |
- 4.2 Most important symptoms and effects, both acute and delayed** Headache, dizziness, drowsiness, nausea and other CNS effects.
- 4.3 Indication of immediate medical attention and special treatment needed, if necessary** If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

## SECTION 5 FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames. DO NOT USE straight streams of water.
- 5.2 Specific hazards arising from the substance or mixture** Smoke, fume, incomplete combustion products, oxides of carbon.
- 5.3 Advice for fire-fighters** Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus. Use water spray to cool fire exposed surfaces and to protect personnel.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. See section 5 for fire fighting information. See section 4 for first aid advice. See section 8 for advice on the minimum requirements for PPE. For emergency responders – Respiratory protection: half-face or full face respirator with filters for organic vapour and when applicable, H<sub>2</sub>S or self-contained breathing apparatus can be used depending on the size of spill and potential level of exposure. Work gloves that are resistant to aromatic hydrocarbons are recommended.
- 6.2 Environmental precautions** Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.
- 6.3 Methods and material for containment and cleaning up**  
**Land Spill:** Stop leak if you can do so without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Recover by pumping or with suitable absorbent.  
**Water Spill:** Stop leak if you can do so without risk. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.
- 6.4 Reference to other sections** Personal protective equipment: See section 8



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## SECTION 7 HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Avoid contact with skin. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapours from liquids or residues that may be present. Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance.
- 7.2 Conditions for safe storage, including any incompatibilities** Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area. Storage containers should be earthed and bonded. Fixed storage containers, transfer containers and associated equipment should be earthed and bonded to prevent accumulation of static charge.
- 7.3 Specific end use(s)** See section 1

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
- | Country | Substance   | Long Term (8 Hours TWA) | Short Term (15 Mins) |
|---------|---|-------------------------|----------------------|
| UK      | Distillates (Petroleum), Hydrotreated Light; Kerosene – Unspecified | 5mg/m <sup>3</sup>      | -                    |
- 8.2 Exposure controls**
- Ventilation Procedures:** Adequate ventilation should be provided so that exposure limits are not exceeded. If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health then use a half-face filter respirator. Type A filter material.
- Hand Protection:** Chemical resistant gloves. Nitrile, CEN standards EN 240 and EN 374 provide general requirements.
- Eye Protection:** Safety glasses with side shields
- Skin Protection:** Chemical/oil resistant clothing
- Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on basic physical and chemical properties** Does not constitute a specification

### Typical Values

Grades:	Units	EDM 1
Appearance		Clear Colourless Liquid
Odour		Slight
Odour Threshold		No data available
pH		No data available
Relative density	kg/m <sup>3</sup>	0.803 at 15°C
Solubility - water		Insoluble
Melting point	°C	Scientifically unjustified -25
Initial boiling point and range	°C	192-256 760 mm Hg
Flash point (COC)	°C	80
Flammability (solid, gas)		Not flammable
Upper/lower flammability or explosive limits		LEL 0.6% UEL 7.0%
Vapour pressure	kPa 20	0.04
Partition coefficient n-octanol/water	Log Pow	No data available
Autoignition temperature		225
Decomposition temperature		No data available
Viscosity	mm <sup>2</sup> /s	1.72 @ 40°C
Evaporation rate		No data available
Vapour density		No data available



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Explosive properties  
Oxidising properties

Not explosive with air  
None

9.2 Other Information None

## SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity	See sub-sections below.
10.2 Chemical stability	Stable under normal temperature conditions and recommended use
10.3 Possibility of hazardous reactions	None under normal processing
10.4 Conditions to avoid	Avoid heat, flames and the sources of ignition. Take precautionary measures against static discharges.
10.5 Incompatible materials	Strong acids. Strong oxidising substances.
10.6 Hazardous decomposition products	Thermal decomposition may liberate carbon oxides and other toxic gases or vapours. Aldehydes. Hydrocarbons.

## SECTION 11 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity

- Oral	LD50 Rat >5000 mg/kg.
- Inhalation	LC50 Rat 4 hrs >5.28 mg/l (vapours)
- Dermal	LD50 Rabbit >2000 mg/kg

#### Corrosivity/Irritation

- Eye	Not irritating.
- Skin	Not corrosive to skin.
- Respiratory Tract	No evidence that the material can lead to respiratory hypersensitivity.

#### Sensitisation

- Skin	Not expected to be a skin sensitiser.
- Respiratory	Not expected to be a respiratory sensitiser.

#### Repeated-dose Toxicity

No data available.

#### Mutagenicity

Not expected to be a germ cell mutagen.

#### Carcinogenicity

Not expected to cause cancer.

#### Reproductive Toxicity

Not expected to be a reproductive toxicant.

## SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity	Not available
12.2 Persistence and Degradability	Inherently biodegradable
12.3 Bioaccumulative Potential	Substance is a UVCB. Standard tests for this endpoint are not appropriate
12.4 Mobility in Soil	Substance is a UVCB. Standard tests for this endpoint are not appropriate
12.5 Results of PBT and vPvB Assessment	Not classified as PBT/vPvB by current EU criteria.
12.6 Other Adverse Effects	No adverse effects are expected

## SECTION 13 DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

## SECTION 14 TRANSPORT INFORMATION

Not regulated for Transport

14.1 UN Number	-
14.2 UN Proper Shipping Name	-
14.3 Transport Hazard Class	-
14.4 Packing Group	-



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<b>14.5 Environmental Hazards</b>	Not classified as an Environmentally hazardous substance/Marine Pollutant
<b>14.6 Special Precautions for User</b>	-
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not classified according to Annex II

## SECTION 15 REGULATORY INFORMATION

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	Supply regulations: DPD: Dangerous Preparations Directive; GHS: Globally Harmonised System of classification and labelling of chemicals; CLP: Classification, Labelling and Packaging regulations. Transport regulations: CDG: Carriage of Dangerous Goods regulations; ADR/RID/IMDG/ICAO/IATA regulations.
<b>15.2 Chemical Safety Assessment</b>	A chemical safety assessment has been carried out for the substance that makes up this material.

## SECTION 16 OTHER INFORMATION

Fourth Issue  
Third Issue January 2013: Changed to new format.  
Second issue revised to re-format to REACH version 2.

### Full text of classification data in sections 2 and 3

Asp. Tox. 1; H304 EUH066	Aspiration hazard, Hazard Category 1; May be fatal if swallowed and enters airways Repeated exposure may cause skin dryness or cracking
Xn; R65 R66	Harmful; may cause lung damage if swallowed Repeated exposure may cause skin dryness or cracking