

# MATERIAL SAFETY DATA SHEET

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

**Product Name:** ALCO-EP ECF      **Manufacturer/Supplier:** JET-LUBE (UK) LIMITED  
**Chemical Family:** Biodegradeable grease.      **Address:** Reform Road, Maidenhead,  
Berkshire, SL6 8BY, UK

**Use:** Subsea and extreme condition lubrication.

**Telephone:** 01628 631913      **Fax:** 01628 773138  
**Emergency Telephone:** 07919 488301

## 2) HAZARDS IDENTIFICATION

### Main Hazards - Health Effects

**Eyes:** May cause irritation.  
**Skin:** Possible rash for persons with sensitivity.  
**Inhalation:** Viscous nature may block breathing passages if inhaled.  
**Ingestion:** May cause diarrhoea.

## 3) COMPOSITION/INFORMATION OF INGREDIENTS

Hazardous Components	CAS No	EC No	WT%	OSHA PEL	ACGIH TLV	OTHER
<b>Nonhazardous Blend</b>						
Lubricating grease,	74869-21-9	278-011-7	95-100	5mg/m <sup>3</sup> (As mist)	10mg/m <sup>3</sup>	*
Calcium sulphonate based						

\* Base oil DMSO to IP346<3% so carcinogen warning does not apply.

## 4) FIRST AID MEASURES

**Eyes:** Flush with water until all residual is gone. If irritation persists seek medical help.  
**Skin:** Wash thoroughly with hand cleaner, followed by soap & water. All contaminated clothing should be dry cleaned before reuse.  
**Inhalation:** Clear air passage and seek medical help, if respiratory difficulty.  
**Ingestion:** Do not induce vomiting. Seek medical assistance.

## 5) FIRE FIGHTING MEASURES

**Extinguishing Media:** Foam, dry powder, carbon dioxide, sand, earth or water mist.  
**Unsuitable Extinguishing Media:** Water jet  
**Protective Equipment for Fire-fighting:** Self contained breathing apparatus.

## 6) ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear gloves & protective overalls.  
**Environmental Precautions:** Do not allow into drains or watercourses.  
**Spillage:** Scrape up bulk, then wipe up remainder with cloth & pick up remaining residue with diatomaceous earth or sand to avoid a walking hazard. Place in sealed container.

## 7) HANDLING AND STORAGE

**Handling:** No special handling precautions necessary  
**Storage:** Do not store at elevated temperatures

## 8) EXPOSURE CONTROL/PERSONAL PROTECTION

**Hand Protection:** Protective gloves for sensitive persons  
**Eye Protection:** Glasses, if applied to moving parts in motion.  
**Body Protection:** Overalls  
**Respiratory Protection:** None needed.

## 9) PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Semi-Solid (paste)      **Colour:** Red      **Odour:** Petroleum  
**Boiling Range/Point (°C):** N/A      **Melting Point (°C):** 204°C  
**Flash Point (PMCC) (°C):** >221°C      **Autoignition Temp (°C):** >260°C  
**Explosive Properties:** LEL: 0.9%      **UEL:** 7%  
**Evaporation Rate (Butyl Acetate):** <0.01      **Partition Coefficient (Log Pow):** N/A  
**Vapour Pressure:** <0.01      **Density (Kg/dm<sup>3</sup>):** 1.26  
**Percent Volatiles:** Nil      **Flammability:** Not flammable at ambient temperatures.  
**Oxidising Properties:** None      **Solubility in Water:** Nil      **Vapour Density:** >5

## 10) STABILITY AND REACTIVITY

**Stability:** Chemically stable under normal conditions  
**Conditions to Avoid:** Powerful sources of ignition and extreme temperatures.  
**Materials to Avoid:** Strong inorganic & organic acids & oxidising agents.  
**Hazardous Decomposition Products:** Burning generates smoke, airborne soot, hydrocarbons and oxides of carbon, sulphur and nitrogen. Residue mainly comprised of soot, metal and mineral oxides.

## 11) TOXICOLOGICAL INFORMATION

**Acute Toxicity:** Not known      **Irritancy-skin:** Very mild      **Skin Sensitisation:** Not known  
**Sub-acute/subchronic Toxicity:** Not known      **Chronic Toxicity:** None known  
**Genotoxicity:** None known      **Carcinogenicity:** No      **NTP:** No      **IARC:** No      **OSHA:** No  
**EC Classification (67/548/EEC):** No.      **LC-50:** >4000mg/kg      **LD-50:** Not applicable.

## 12) ECOLOGICAL INFORMATION

**Possible Effects:** Will not generate oil fractions that could act as a marine pollutant.  
**Behaviour:** Bioaccumulation potential nil. Less dense than salt water.  
**Environmental Fate:** Highly unlikely to cause notable contamination.  
Non-toxic to marine or land organisms. Readily biodegradeable.

## 13) DISPOSAL CONSIDERATIONS

**Product Disposal:** Do not incinerate. Contact waste disposal company or local authority for advice.  
**Container Disposal:** Metal pails - may only be disposed of via standard waste disposal services, recycled or reused. Plastic pots - see product disposal section above.

## 14) TRANSPORT INFORMATION

Not classified as hazardous for transport.

## 15) REGULATORY INFORMATION

**Labelling Information:** None needed      **EC Annex 1 classification:** N/A  
**R Phrases:** R 22 Harmful if swallowed  
**S Phrases:** None, as known.

## 16) OTHER INFORMATION

**Date of Original Issue:** 15<sup>th</sup> April 2008      **Date of This Revision:** 10th Nov 2008  
**Revision No:** 3BR      **Revised sections:** 16 disclaimer.

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