

MATERIAL SAFETY DATA SHEET

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

Product Name: KOL'R-KING ®
Chemical Family: Petroleum based lubricating grease.
Use: Drill collar compound/anti-seize

Manufacturer/Supplier: JET-LUBE (UK) LIMITED
Address: Reform Road, Maidenhead, Berkshire, SL6 8BY, UK
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, anaemia and birth defects.

3) COMPOSITION/INFORMATION OF INGREDIENTS

Hazardous Components	CAS No	EC No	WT%	OSHA PEL	ACGHI TLV	Other
Lubricating grease	74869-21-9	278-011-7	25-30	5mg/m ³ (As oil mist)		DMSO to IP346<3%
Metallic Lead	7439-92-1	231-100-4	55-60	0.05mg/m ³ (As dust)	0.05mg/m ³	R23,R25,R61
Talc	1480-796-6	238-877-9	5-7	2mg/m ³ (As dust)	2mg/m ³	
Graphite	7782-42-5	231-955-3	4-5	2.5mg/m ³ (As dust)	2mg/m ³	

4) FIRST AID MEASURES

Eyes: Flush with water until all residual materials is gone. If irritation persists, seek medical help.
Skin: Wash thoroughly with hand cleaner, followed by soap & water. Contaminated clothing should be dry cleaned before reuse.
Inhalation: Clear air passage. If respiratory difficulty continues, seek medical help.
Ingestion: Consult physician about method involving metallic lead.

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 & overalls.
Environmental Precautions: Do not allow it to enter drains. Consult hazardous waste regulations.
Spillage: Scrape up bulk, then wipe up remainder with cloth. To prevent walking hazard, pick up remaining residue with diatomaceous earth or sand. 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 parts in motion. **Body Protection:** Overalls.
Respiratory Protection: None needed.

9) PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Semi solid paste **Colour:** Black **Odour:** Petroleum **pH:** Neutral
Boiling Range/Point (°C): 274 **Melting Point (°C):** 199
Flash Point (PMCC) (°C): 221 **Autoignition Temp (°C):** 260
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/dm³):** 2.46
Percent Volatiles: Nil **Flammability:** Not flammable at ambient temperature.
Oxidising Properties: None **Solubility in Water:** Nil **Vapour Density:** >5 **OAR GROUP:** N/A

10) STABILITY AND REACTIVITY

Stability: Chemically stable under normal conditions. No photoreactive agents.
Conditions to Avoid: Powerful sources of ignition and extreme temperatures.
Materials to Avoid: Strong inorganic & organic acids, oxidising and metal reactive 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. **Allergens:** Unknown.
Chronic Toxicity: May result in birth defects, anaemia, weight loss & impaired motor functions.
Skin Sensitisation: Not known. **Subacute/Sub-chronic Toxicity:** Not known.
Genotoxicity: Yes lead. **EC Classification (67/548/EEC):** No.
Carcinogen: NTP: No IARC: No. **OSHA:** No. **LC-50:** Unknown, presumed toxin.
LD-50: Not applicable.

12) ECOLOGICAL INFORMATION

Possible Effects: May generate oil fractions and lead that could act as a marine pollutants.
Behaviour: Bioaccumulation potential of metallic lead is minimal.
Environmental Fate: Unlikely to cause notable contamination. may be toxic to marine or land organisms. More dense than water with limited solubility or mobility.

13) DISPOSAL CONSIDERATIONS

Product Disposal: Do not incinerate. Contact waste disposal company or local authority for advice on leaded waste.
Container Disposal: Pails - see Product Disposal section above.

14) TRANSPORT INFORMATION

ADR/RID Class 9 Packing group III. UN number 3077. Label 9
Hazard ID No 90 Name. Environmentally hazardous substance, solid, n.o.s. (Lead)
IMDG Class 9 Packing group III. UN number 3077. Label 9
Hazard ID No 90 Name. Environmentally hazardous substance, solid, n.o.s. (Lead)
ICAO/IATA Class 9 Packing group III. UN number 3077. Label 9
Hazard ID No 90 Name. Environmentally hazardous substance, solid, n.o.s. (Lead)

15) REGULATORY INFORMATION

Labelling Information: St Andrew Cross - Harmful **EC Annex 1 Classification:** N/A
R Phrases: R25-harmful swallowed. R33-danger of cumulative effects.
R61 May cause harm to the unborn child. **S Phrases:** S41 Burning may evolve toxic fumes.

16) OTHER INFORMATION

Date of Original Issue: April 7, 1997 **Date of this Revision:** 1st May 2009
Revision No: 2BR **Revised Sections:** 2-3 reversed, 16 disclaimer
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