

MATERIAL SAFETY DATA SHEET

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

Product Name: NIKAL NUCLEAR
Chemical Family: Petroleum grease with metal
Use: Anti-seize lubricant
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: May cause irritation on people with sensitive skin
Inhalation: No vapour that can be inhaled, but direct introduction of the bulk into breathing passages could cause suffocation
Ingestion: May cause diarrhoea

3) COMPOSITION/INFORMATION OF INGREDIENTS

Hazardous Components	CAS No	WT%	OSHA PEL	ACGIH TLV	Other
Lubricating grease	74869-21-9	70-75	5mg/m ³ (Oil mist)	DMSO to IP346<3%	
Nickel Powder	7440-02-0	20-22	1mg/m ³ (As dust)	1mg/m ³	
Graphite	7440-44-0	6-8	2mg/m ³ (As dust)	2mg/m ³	

4) FIRST AID MEASURES

Eyes: Flush with water until all residual material is gone. Seek medical advice if irritation persists
Skin: Wash thoroughly with hand cleanser, followed by soap and water. Contaminated clothing should be dry cleaned before use
Inhalation: Clear air passages, seek medical help if breathing difficulty continues
Ingestion: Do not induce vomiting. Seek medical advice

5) FIRE FIGHTING MEASURES

Extinguishing Media: Carbon dioxide, foam, dry powder, BCF, sand, earth & water mist
Unsuitable Extinguishing Media: Water jet
Protective Equipment for Fire-fighting: Self-contained breathing apparatus

6) ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear gloves; wear protective overalls when handling large quantities
Environmental Precautions: Do not allow into drains or watercourses
Spillage: Use oil absorption granules or sand to absorb the bulk or a rag for small quantities, clean residue with floor cleaner and water. Do not allow run-off into the drains

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, if handling quantities more than 500ml
Respiratory Protection: None needed

9) PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Semisolid Paste **Colour:** Silver **Odour:** Mild petroleum
Boiling Range/Point (°C): >316 **Melting Point (°C):** 232
Flash Point (PMCC) (°C): >221 **Autoignition Temp (°C):** >260
Explosive Properties: LEL: 0.9 UEL: 7
Evaporation Rate (Butyl Acetate): <0.01 **Vapour Pressure:** <0.01
Density (Kg/dm³): 1.1 **Percent Volatiles:** Below measurable limits
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. No photoreactive agents
Conditions to Avoid: Powerful sources of ignition and extreme temperatures
Materials to Avoid: Strong inorganic and organic acids and oxidising agents
Hazardous Decomposition Products: Burning generates smoke, airborne soot and Carbon oxides.

11) TOXICOLOGICAL INFORMATION

Acute Toxicity: Not known **Irritancy-Skin:** Very Mild **Skin Sensitisation:** Not Known
Subacute/Subchronic Toxicity: Not Known **Genotoxicity:** None Known **Allergens:** None
Known Carcinogen: NTP: Suspected **IARC:** Yes **OSHA:** No
CHIP Classification: Carcinogen Cat 3: R40, R43 (CHIP warnings for Nickel powder in product) **LC-50:** Unknown **LD-50:** NA

12) ECOLOGICAL INFORMATION

Possible Effects: In extreme cases, may generate oil fractions that could act as a marine pollutant. Occurrences of this nature are highly unlikely
Behaviour: Bioaccumulation potential nil
Environmental Fate: Unlikely to cause widespread contamination. Non-toxic to marine or land organisms

13) DISPOSAL CONSIDERATIONS

Product Disposal: Contact local waste authority for advice
Container Disposal: Recycle as steel if clean and empty; if not, Contact local waste authority for advice

14) TRANSPORT INFORMATION

Not classified as hazardous for transport

15) REGULATORY INFORMATION

Labelling Information: **R Phrases:** R40 (Possible risk of irreversible effects) R43 (May cause sensitisation by skin contact) S36 (Wear suitable protective clothing)
Symbols (if required): Xn: Harmful

16) OTHER INFORMATION

Date of Issue: 11/06/96 **Revision No:** 5BR
Revision Date: 11th Nov 2008 **Reason for Revision:** 1 tel, 16 disclaimer
The carcinogen warnings relating to the nickel content are included to comply with current regulations. Carcinogenicity in Nickel was suspected because of health data taken from workers exposed to fine airborne nickel dust. This data has subsequently been shown to be invalid because no attempt was made to subtract the effect of other known carcinogens present in the same atmosphere. Nikal contains large nickel flakes that are unable to become airborne because of their size and because they are held in grease. We are therefore confident that Nikal cannot cause cancer.
The information in this safety data sheet has been prepared with due care and is true and accurate to the best of our knowledge. Jet-lube UK shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.