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POWER CUT FLUID

SECTION 1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY / UNDERTAKING

- 1.1 **Product name:** Power Cut Fluid
1.2 **Identified use(s):** Metalworking Fluid
Use(s) advised against: None known.
1.3 **Details of supplier of SDS:** New Tech Lubes Ltd, Unit 2-4 Harrison Drive Ind Est, Worksop Notts, S81 9RL
E Mail (competent person): info@newtechlubes.com
1.4 **Emergency telephone:** +44 (0)1909 730900 (08.00 -16.00 GMT Monday to Friday)

SECTION 2. HAZARDS IDENTIFICATION

- 2.1 **Classification of the substance/mixture:** Not classified as dangerous for supply/use.
2.2 **Label elements:** This product has no label elements.
2.3 **Other hazards:** The mixture is not identified as a vPvB or PBT substance.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

- 3.1 **Substances:** N/A
3.2 **Mixture:** N/A
3.3 **Additional information:** N/A

SECTION 4. FIRST AID MEASURES

- 4.1 **Description of first aid measures:**
General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
Skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
Eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
Inhalation: Allow affected person to breathe fresh air. Allow the victim to rest.
- 4.2 **Most important symptoms and effects, both acute and delayed:**
Skin contact: There may be mild irritation at the site of contact.
Eye contact: There may be irritation and redness.
Ingestion: There may be irritation of the throat.
Inhalation: No symptoms.
- 4.3 **Indication of any immediate medical attention and special treatment needed:** Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

- 5.1 **Extinguishing media:**

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2 Special hazards arising from the substance or mixture: This product may give rise to hazardous fumes in a fire.

5.3 Advice for fire fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering the environment. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Spillages may be slippery. Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid. Wear suitable gloves and eye/face protection. Clean up any spills as soon as possible, using an absorbent material to collect it. Evacuate unnecessary personnel. Equip cleanup crew with proper protection. Ventilate area.

6.2 Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3 Methods and material for containment and clearing: Transfer into suitable containers for recovery or disposal. Scrub area with detergent and water to prevent slippery residues. Absorb into dry earth or sand.

6.4 Reference to other sections: For PPE and disposal see sections 8 and 13 respectively.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling: Avoid contact with skin and eyes. Provide adequate ventilation where operational procedures demand it. Do not allow to enter drains, sewers or watercourses. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Conditions for safe storage, including any incompatibilities: Store in a cool, dry, ventilated area. Keep container tightly closed. Keep away from direct sunlight. Keep only in original container at temperatures not exceeding 40°C. Incompatible products: Strong bases. Strong acids. Incompatible materials: Sources of ignition. Direct sunlight.

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

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Workplace exposure limits:

State	8-hour TWA	15 min. STEL	Respirable dust: 8-hour TWA	15 min. STEL
EU	5mg/m ³	10mg/m ³	-	-

PNECs and DNELs:

DNEL/DNEL	Oral	Inhalation	Dermal
Industry - Long Term - Local effects			
Industry - Long Term - Systemic effects		2.35 mg/m ³	20 mg/kg bw/day
Industry - Short term - Local effects			
Industry - Short term - Systemic effects			
Consumer - Long Term - Local effects			
Consumer - Long Term - Systemic effects	0.167 mg/kg bw/day		8.3 mg/kg/bw/day
Consumer - Short term - Local effects			
Consumer - Short term - Systemic effects			

Environment	PNEC
Aquatic Compartment (including sediment)	Fresh water: 5.5 µg/l Marine water: 1.1 µg/l Microorganisms (sewage treatment plant): 60 mg/l Wet Sediment (Fresh water): 33.1 mg/kg Wet Sediment (Marine water): No data
Terrestrial Compartment	Soil: 26.9 g/kg Wet
Atmospheric Compartment	No data

8.2 Exposure controls:

Appropriate engineering controls: Ensure good ventilation /local exhaust ventilation to keep airborne contaminants below exposure limits.

Personal protective equipment:



Eye / face protection: Safety goggles/glasses if there is a risk of eye contact.

Skin protection: Good working practice suggests gloves and goggles should be worn. The following materials are suitable for protective gloves (permeation time ≥ 8 hours): Nitrile rubber. Check with protective equipment manufacturer's data. Use gloves with a permeation time >8 hours (nitrile rubber recommended) refreshed on a daily basis.

Respiratory protection: Wear suitable respiratory protective equipment if exposure to mist is likely. A suitable dust mask or dust respirator with filter type P (EN143 or EN405) may be appropriate.

Thermal hazards: Not applicable

Environmental exposure controls: See sections 6, 12, 13.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Physical state: Liquid

Colour: Brown

Odour: Sulphide

Odour threshold: No data available

pH: No data available

Relative evaporation rate (butylacetate=1): No data available

Melting point: No data available

Freezing point: No data available

Boiling point: No data available

Flash point: $< 200^{\circ}\text{C}$

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Flammability (solid, gas): No data available

Vapour pressure: No data available

Relative vapour density at 20°C : No data available

Relative density: 0.9 (measured as kg/litre)

Solubility: No data available

Partition coefficient n-octanol/water (Log Pow): No data available

Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

Explosive properties: Pressurised container: No data available

Oxidising properties: No data available

Explosive limits: No data available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: No dangerous reactions known under normal conditions of use.

10.2 Chemical stability: Stable under proper storage and handling conditions.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: Heat, flame and other ignition sources.

10.5 Incompatible materials: Avoid contact with strong oxidising agents.

10.6 Hazardous decomposition products: In combustion emits toxic fumes.

11.1 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological information:

Acute toxicity (oral): Not classified

Acute toxicity (dermal): Not classified

Acute toxicity (inhalation): Not classified

Skin corrosion/irritation: Based on available data, the classification criteria are not met

Serious eye damage/irritation: Based on available data, the classification criteria are not met

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met
Germ cell mutagenicity: Based on available data, the classification criteria are not met
Carcinogenicity: Based on available data, the classification criteria are not met
Reproductive toxicity: Based on available data, the classification criteria are not met
STOT-single exposure: Based on available data, the classification criteria are not met
STOT-repeated exposure: Based on available data, the classification criteria are not met
Aspiration hazard: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met

SECTION 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity:** Not classified.
- 12.2 Persistence and degradability:** Concentrations in the atmosphere are likely to be very small due to low volatility. This product is expected to be partially biodegradable. There is evidence of partial hydrolysis in water. There is evidence of slow degradation in soil and water.
- 12.3 Bio-accumulative potential:** Product is not expected to bio-accumulate.
- 12.4 Mobility in soil:** Readily absorbed into soil.
- 12.5 Results of PBT and vPvB assessment:** This product is not identified as a PBT/vPvB substance.
- 12.6 Other adverse effects:** Avoid release to the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods:** Do not discharge into drains or the environment, dispose to an authorised waste collection point. Disposal should be in accordance with local, state or national legislation.

SECTION 14. TRANSPORT INFORMATION

- 14.1 UN number:** Not classified
- 14.2 UN proper shipping name:** Not classified
- 14.3 Transport hazard class(es):** Not classified
- 14.4 Packing group:** None
- 14.5 Environmental hazards:** Not applicable
- 14.6 Special precautions for user:** Not classified
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Not applicable

SECTION 15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**
EU regulations: No REACH Annex XVII restrictions
National regulations: N/A
- 15.2 Chemical safety assessment:** No chemical safety assessment has been carried out.

SECTION 16. OTHER INFORMATION

Classification methods used to derive classification of mixture: Classification according to calculation procedure detailed in EC1272/2008

Legend:

CAS: Chemical Abstracts Service
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL: Derived No Effect Level
EC: European Community
EINECS: European Inventory of Existing Commercial Chemical Substances
LTEL: Long term exposure limit
PBT: Persistent, Bio-accumulative and Toxic
PNEC: Predicted No Effect Concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
STEL (SE): Short term exposure limit (Single exposure)

STOT: Specific Target Organ Toxicity

vPvB: very Persistent and very Bio-accumulative

Additional information: This safety data sheet has been produced based on information supplied by the manufacturers of the materials therein and is believed to be accurate. No warranty is expressed or implied by this information. It is for the user to satisfy themselves of the suitability of the product for their own purposes.