

“Da Xing” Potassium Oleate Saponified Solution
(Linear Cutting Machine Working Solution)

Material Safety Data Sheet

(MSDS)

(With the seal of Nanjing Special Oil Factory)

Prepared by: Nanjing Special Oil Factory

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I. Company Identification

Company name: Nanjing Special Oil Factory
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II. Product Name/Information on Ingredients

Product name: potassium oleate saponified solution (linear cutting machine working solution)

Main ingredients and their content:

Ingredient	Content %	Remarks
Mechanical oil	75	
Oleic acid	15	
Rosin	10	

III. Physical and Chemical Properties

Appearance and property: brown yellow liquid

PH value (1:10): 8~10

Emulsifying ability: the working solution is dropped into the water and uniformly dispersed

Antirust capability: free of rusts (20°C+2°C, HT300 cast-iron test block, 40 hours each block)

Main application: as a working medium, it is mainly applied in electrical discharge machining of the EDM linear cutting machine.

Usage: dilute with 1:10 of the working solution and tap water before use

IV. Hazard Information

Flammability: nonflammable under 150°C. No explosive hazard.

Toxicity: nontoxic, stable chemical property.

Other properties: nonirritating, non-corrosive. It has no irritating and corrosive effects on skin and clothing.

V. Handling and Personal Protection

Operation cautions: Keep the working place ventilated. Slightly load and unload during handling, preventing package and vessels from damage.

Storage cautions: Store in the dry and well ventilated warehouse. Do not expose to sunlight and keep away from source of ignition.

Eye protection: Wear chemical safety goggles, to avoid splashing into eyes.

Hand protection: Avoid soaking in the working solution for a long time, and flush with clear water after contact.

Other protections: No smoking and no eating at the workplace.

VI. Emergency Treatment

Skin contact: flush with clear water or soap and water.

Eye contact: immediately lift eyelids and flush with flowing water or saline till elimination of strange feelings. Immediately get medical attention if serious symptoms occur

Ingestion by mistake: minimize ingestion by mistakes. Immediately drink enough clean water to dilute or induce vomiting. Immediately get medical attention if serious symptoms occur.

VII. Disposal Consideration

1. The waste liquid after use shall be discharged into the sewage treatment system.
2. The waste can be discharged into rivers with the self-cleaning ability after dilution or precipitation with water for many times.