

\*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\*

### 1. 产品及企业标识/Product and Company Identification

产品名称/Product Name: **DZ988N Copper extraction reagent**

一般用途/General Use: Extract copper from copper ore

公司/Company: Zhengzhou Deyuan Fine Chemicals Co., Ltd

应急电话/Emergency Telephone No.: 18937129559

### 2. 成份/Composition

CAS# 化学特性索引号码	Chemical Name 化学名称	% 浓度	EINECS# 现存化学物质欧洲数据库号码
50849-47-3	DZ988N Copper extraction reagent	25% Aldoxime	256-798-8
59344-62-6		25% Ketoxime	
8008-20-6		50% Solvent oil	232-366-4

### 3. 危险性标识/Hazards Identification

Eye 眼睛: Stimulating

Skin 皮肤: Irritation

Ingestion 误食: Causing Vomiting

Inhalation 吸入: Mild respiratory infections

Chronic 可否引起慢性疾病: Long time or frequency contact can lead to Nausea, headache, vomiting, shortness of breath, wheezing.

Combustion hazard 燃爆危险: Flammable, mixer of its vapor and air can form explosive mixture.

### 4. 急救措施/First Aid Measures

Eyes 眼睛: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

Skin 皮肤: If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

Ingestion 误食: Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital

Inhalation 吸入: Leave the scene, go to the place with fresh air

Notes to Physician 给内科医生的建议: Must wear good protective measure when contacting.

### 5. 消防措施/Fire Fighting Measures

Flash point: 80°C

Auto ignition temperature: No data available

Suitable extinguishing media: Carbon Dioxide (CO2)

**Unsuitable extinguishing media:**

High volume water jet.

**Specific hazards during firefighting:**

to enter drains or water courses.

Do not allow run-off from fire-fighting

**Special protective equipment for fire-fighters:** Wear self contained breathing apparatus for the fighting if necessary

**Further information:** Its vapor and air can form explosive mixture, encounter caused an explosion of the burning flame, high heat, strong reaction can occur with antioxidants. The steam is heavier than air, can spread far place in low, meet fire leads back to the burning. Velocity too fast, easy to generate and accumulate static electricity. As far as possible, remove the container from fire to empty place, keep container cooling, if the container suddenly abnormal sound or abnormal phenomenon, should immediately leave. Available foam, carbon dioxide, dry powder fire extinguishing

## 6. 应急泄漏措施/Accidental Release Measures

**Personal precautions:** Use personal protective equipment. Ensure adequate ventilation.

**Environmental precautions:** Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

**Methods for cleaning up:** Contain spillage, and then collect with non-combustible absorbent material. (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/ national regulations). Keep in suitable, closed containers for disposal

## 7. 操作和储存/Handling and Storage

**Handling:**

**Advice on safe handling:** Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure-obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and /or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulation.

**Advice on protection against fire and explosion:** Do not spray on an open flame or any other incandescent material. Keep away from open flames, hot surfaces and sources of ignition.

**Storage:**

**Requirements for storage area and containers:** No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations/working materials must completely with the technological safety standards.

## 8. 接触控制 – 个人防护/Exposure Controls – Personal Protection

**Engineering measures:**

Adequate ventilation to control airborne concentrations below the exposure guidelines/ limits. Consider the potential hazards of this material, applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal

protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances

**Personal Protective Equipment 个人防护:**

Eye: Wear chemical safety goggles

Skin: Wear appropriate protective gloves to prevent skin exposure

Clothing: Wear appropriate protective clothing to prevent skin exposure

Respirators: Wear appropriate respirators where necessary

**9. 理化特性/Physical and Chemical Properties**

Physical State (物理状态) : Oily liquid

Color(颜色): Fluid amber oil liquid

Odor (味道) : Fragrant smell of benzene

pH: Faintly acid

Boiling Point (沸点) : >300°C

Flash Point (闪点) : >80°C

Relative density: 0.91-0.93

Solubility: Insoluble in water, soluble in ethanol, ether, organic solvent, etc.

**10. 稳定性和反应性/Stability and Reactivity**

**Chemical stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Possibility of hazardous reactions**

Conditions to avoid: Heat, flames and sparks

Material to avoid: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous combustion or decomposition products: Carbon monoxide, carbon dioxide, nitrogen oxides.

**11. 毒理学资料/Toxicological Information**

Acute inhalation toxicity	LD 50: >5000 mg/kg    unknown
Acute dermal toxicity	LD50 dermal: >5000 mg/kg method: acute toxicity estimate
Skin irritation/ corrosion	No data available
Eye stimulation/ corrosion:	No data available

Breathing or skin allergy	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity- single exposure	No data available
Specific target organ toxicity- repeated exposure	No data available
Aspiration hazard	An anesthetic effect of inhale oral or absorbed through the skin。 The vapor or mist can irritate eyes, skin, mucous membrane and respiratory, it can cause nervous system disorders, and have an anesthetic effect for long time contact

## 12. 生态学资料/Ecological Information

Do not allow material to be released to the environment without proper governmental permits.

Do not allow product to reach ground water, must not be disposed together with household garbage.

Do not allow product to reach sewage system

## 13. 废弃处置注意事项/Disposal Consideration

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA or other state and local regulations, Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law require disposal at a licensed hazardous waste disposal facility.

**Product:** The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, water ways or ditches with chemical or used container. Send to a licensed waste management company.

**Contaminated packaging:** Empty remaining contents, dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

## 14. 运输信息/Transport Information

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the MSDS and the bill of lading.

UN 3082. CL: 9

PACKING GROUP: III

### 15. 法规信息/Regulatory Information

The safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

**Safety, health and environmental regulations/ legislation specific for the substance or mixture:**

No data available

**Chemical safety Assessment:** No data available.

### 16. 其他信息 Other Information

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additive to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

For and on behalf of  
Zhengzhou Deyuan Fine Chemicals Co., Ltd  
郑州市德源精细化学品有限公司  
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Author's Signature(s)