

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## JBS Metatungstate Cluster Kit

Hexa-Sodium metatungstate

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: JBS Metatungstate Cluster Kit  
Catalog Number: PK-106  
Supplier: Jena Bioscience GmbH  
Loebstedter Strasse 71  
07749 Jena, Germany  
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### 2. HAZARDS IDENTIFICATION

#### Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute toxicity, Oral (Category 4) H302  
Serious eye damage (Category 1)  
1) H318  
Chronic aquatic toxicity (Category 3) H412

#### Label elements



Pictogram

Signal word Danger

Hazard statement(s)

H302 Harmful if swallowed.  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component: JBS Metatungstate Cluster Kit  
Synonyms: Hexa-Sodium metatungstate

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Formula:  $\text{Na}_6[\text{H}_2\text{W}_{12}\text{O}_{40}] \times \text{H}_2\text{O}$   
Molecular Weight: 2986.00 g/mol  
CAS-No.: 314075-43-9

### 4. FIRST AID MEASURES

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special hazards arising from the substance or mixture

Tungsten oxide, Sodium oxides.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

#### Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: store at ambient temperature

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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### Personal protective equipment

#### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form:

### Safety data

pH:

Melting point: no data available

Boiling point: no data available

Flash point: no data available

Ignition temperature: no data available

Lower explosion limit: no data available

Upper explosion limit: no data available

## 10. STABILITY AND REACTIVITY

### Storage stability

Stable under recommended storage conditions.

### Materials to avoid

Oxidizing agents.

### Hazardous decomposition products

no data available

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

LD50 Oral - rat - 1.715 mg/kg

LD50 Dermal - rat - > 2.000 mg/kg

### Irritation and corrosion

Skin - rabbit - No skin irritation - 4 h

Eyes - rabbit - Severe eye irritation

### Sensitisation

no data available

### Germ cell mutagenicity

Genotoxicity in vitro - Not mutagenic in Ames Test.

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Histidine reversion (Ames)

### Signs and Symptoms of Exposure

no data available

## 12. ECOLOGICAL INFORMATION

### Toxicity

Toxicity to fish LC50 - Cyprinus carpio (Carp) - 420,0 mg/l - 24,0 h

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 83 mg/l - 48 h

### Elimination information (persistence and degradability)

no data available

## 13. DISPOSAL CONSIDERATIONS

### Product

Observe all federal, state, and local environmental regulations.

### Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### 14.1 UN number

1759

### 14.2 UN proper shipping name

ADR/RID: Ätzender fester Stoff, n.a.g (Sodium metatungstate hydrate)

IMDG: Corrosive solid, n.o.s. (Sodium metatungstate hydrate)

IATA: Corrosive solid, n.o.s. (Sodium metatungstate hydrate)

### 14.3 Transport hazard class(es)

ADR/RID/IMDG/IATA: 8

### 14.4 Packaging group

ADR/RID/IMDG/IATA: III

### 14.5 Environmental hazards

ADR/RID: yes

IMDG Marine pollutant: yes

IATA: yes

### 14.6 Special precautions for user

see chapter 6 - 8

## 15. REGULATORY INFORMATION

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

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### 16. OTHER INFORMATION

#### Further information

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