



# SHANGHAI BOSMAN INDUSTRIAL CO., LTD.

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## MATERIAL SAFETY DATA SHEET OF HEXAZINON 98% TC

### 1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

**Product name:** Hexazinone 98% TC

**Supplier:** Shanghai Bosman Industrial Co., Ltd

**Street address:** No. 1611, North Sichuan Road, Hongkou, Shanghai R.P. China

**Tel:** + 86 21 63065878

**Fax:** + 86 21 63065878

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Formulation Type:** Technical material (TC)

**Active Ingredients:** Hexazinone

**Chemical Abstracts name:** 3-cyclohexyl-6-(dimethylamino)-1-methyl-1,3,5-triazine-2,4-(1H,3H)-dione

**Molecular Formula:** C<sub>12</sub>H<sub>20</sub>N<sub>4</sub>O<sub>2</sub>

| INGREDIENTS | CAS NO         | PROPORTION (w/w) |
|-------------|----------------|------------------|
| Hexazinone  | 51235 - 04 - 2 | 98% min.         |
| others      | Not available  | Balance          |

**Other ingredients determined not to be hazardous**

### 3. HAZARDS IDENTIFICATION

**Classification according to Regulation (EC) No 1272/2008**

Acute toxicity (Category 4), H302

Eye irritation (Category 2), H319

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

**Label elements**

Labelling according Regulation (EC) No 1272/2008

Version: 1.0

Issue date: Oct. 10, 2022

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Pictogram



**Signal word** Warning

**Hazard statement(s)**

H319 Causes serious eye irritation.

H302 Harmful if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statement(s)**

P273 Avoid release to the environment.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard Statements: none

## **4. FIRST AID MEASURES**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**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.

Version: 1.0

Issue date: Oct. 10, 2022

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## **5. FIRE FIGHTING MEASURES**

### **Extinguishing media**

#### **Suitable extinguishing media**

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

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

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

### **Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

## **6. ACCIDENT RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### **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**

### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

### **Conditions for safe storage, including any incompatibilities**

Version: 1.0

Issue date: Oct. 10, 2022

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

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Exposure controls**

#### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### **Personal protective equipment**

##### **Eye/face 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).

##### **Skin 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEKP2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Version: 1.0

Issue date: Oct. 10, 2022

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** White powder

**Odour:** No specific odor

**pH:** 6.0-9.0

**Density:** NA

**Solubility:** 9.8g/L in water

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

No data available

### Conditions to avoid

No data available

### Incompatible materials

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

Other decomposition products - No data available

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY/IRRITATION STUDIES

**Oral** Acute oral LD<sub>50</sub> for rats 1100 ( 'Velpar' ), guinea pigs 860 mg/kg.

**Skin and eye** Acute percutaneous LD<sub>50</sub> for rabbits >5000 mg/kg.

Version: 1.0

Issue date: Oct. 10, 2022

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**Eye and skin irritation:** Reversible irritant to eyes (rabbits); non-irritating to skin (guinea pigs).

**Inhalation** LC50 (1 h) for rats >7.48 mg/l.

**Chronic toxicity**

NOEL (2 y) for rats 200 ppm (10 mg/kg b.w.), for mice 200 ppm; (1 y) for dogs 5 mg/kg b.w..

## 12. ECOLOGICAL INFORMATION

**Birds** Acute oral LD50 for bobwhite quail 1201 mg/kg. Dietary LC50 (8 d) for bobwhite quail >5620, mallard ducklings >10 000 mg/kg diet.

**Fish** LC50 (96 h) for rainbow trout >320, bluegill sunfish >370 mg/l.

**Daphnia** LC50 (48 h) 152 mg/l.

**Algae** EC50 (120 h) for *Selenastrum capricornutum* 0.007, *Anabaena flos-aquae* 0.210 mg/l.

**Other aquatic spp.** EC50 (14 d) for *Lemna gibba* 0.043 mg/l. Bees Not toxic to bees; LD50 >60 µg/bee.

## 13. DISPOSAL CONSIDERATION

**PRODUCT DISPOSAL:** Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. Ensure that the disposal is in compliance with federal requirements and state or local regulations.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent) and dispose of in an incinerator or landfill approved for pesticide containers.

## 14. TRANSPORT INFORMATION

**ADR/RID**

UN Number: 3077

UN Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (hexazinone)

Transport hazard class: 9

Packing group: III

Marine pollutant: Yes



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## IMDG

UN Number: 3077

UN Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Hexazinone)

Transport hazard class: 9

Packing group: III

## IATA

UN Number: 3077

UN Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Hexazinone)

Transport hazard class: 9

Packing group: III

## 15. REGULATORY INFORMATION

Follow all and international laws and regulations.

## 16. OTHER INFORMATION

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This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact the company.

--END OF MSDS --