

MATERIAL SAFETY DATA SHEET OF

Forchlorfenuron 1% SP

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Supplier: Shanghai Bosman Industrial Co., Ltd

Street address: RM. 1804, No. 1611, North Sichuan Road, Hongkou, Shanghai R.P. China

Tel: + 86 21 63065878

Fax: + 86 21 63065878

Product name: Forchlorfenuron 1% SP

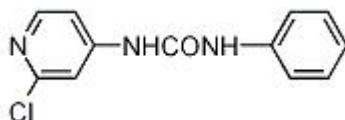
2. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation Type: Soluble powder (SP)

Molecular Formula: C₁₂H₁₀ClN₃O

Molecular Weight: 247.7

Structural Formula:



Other ingredients determined not to be hazardous

CHEMICAL NAME	CAS NO	PERCENT
Forchlorfenuron	68157-60-8	1.0% min.
Others	Not available	Up to 100%

3. HAZARDS IDENTIFICATION

GHS classification of the substance/mixture

Carcinogenicity: Category 2

Eye Damage/Irritation: Category 2A

Skin Corrosion/Irritation: Category 2

Signal Word (s) DANGER

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Hazard Statement (s)

Suspected of causing cancer.

Causes serious eye irritation.

Causes skin irritation.

General Precautionary Statement (s)

Keep out of reach of children.

Read label before use.

Pictogram (s)



Precautionary statement – Prevention

Keep container tightly closed.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not handle until all safety precautions have been read and understood.

Wash hands and exposed skin thoroughly after handling.

Precautionary statement – Response

IF exposed or concerned: Get medical advice/attention.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

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

Immediately call a POISON CENTER or doctor/physician.

Take off contaminated clothing and wash before reuse.

Other Information Poisons Schedule :

Not Scheduled

4. FIRST AID MEASURES

Description of first aid measures

General advice

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

If inhaled

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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

Flush eyes with water as a precaution.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

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_x), Hydrogen chloride gas

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. 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. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Pick up and arrange disposal

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7. HANDLING AND STORAGE

Handling: Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. To maintain product quality: Keep refrigerated.

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.

Hands protection: 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance: White powder

Odour: Slight

pH: 6.0-8.0

Density: NA

Solubility: Soluble in water

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Incompatible materials

Avoid oxidizing agents, acids, acid chlorides, acid anhydrides

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO_x),

Hydrogen chloride gas Other decomposition products - No data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral Acute oral LD₅₀ for male rats 2787, female rats 1568, male mice 2218, female mice 2783 mg/kg. **Skin and eye** Acute percutaneous LD₅₀ for rabbits >2000 mg/kg. Mild eye irritant; not a skin irritant. Not a skin sensitiser. Inhalation LC₅₀ (4 h) for rats: no mortality in saturated atmosphere.

Chronic toxicity

NOEL (2 y) for rats 7.5 mg/kg b.w. daily; developmental for rabbits $\geq$ 100 mg/kg b.w.

12. ECOLOGICAL INFORMATION

Birds Acute oral LD₅₀ for bobwhite quail >2250 ng/kg. Dietary LC₅₀ (5 d) for bobwhite quail >5600 ppm.

Fish LC₅₀ (96 h) for rainbow trout 9.2 mg/l; (48 h) for carp 8.6 mg/l, for goldfish 10–40 ppm.

Daphnia LC₅₀ (48 h) 8.0 mg/l.

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Algae EbC₅₀ (72 h) for *Pseudokirchneriella subcapitata* 3.3 mg/l (EU Rev. Rep.).

Other aquatic spp. IC₅₀ for *Lemna gibba* 16.35 mg/l (EU Rev. Rep.).

Bees LD₅₀ (contact) for honeybees >25 µg/bee (EU Rev. Rep.).

Worms LC₅₀ for earthworms >1000 mg/kg.

13. DISPOSAL CONSIDERATION

Product: Dispose substance in accordance with prevailing country, federal, state and local regulations.

Contaminated packaging: Conduct recycling or disposal in accordance with prevailing country, federal, state and local regulations.

14. TRANSPORT INFORMATION

UN Number: 3077

UN Proper shipping name: Environmentally hazardous substance, solid , n.o.s. (Forchlorfenuron)

Transport hazard class: 9

Packing group: III

Marine pollutant: Yes

15. REGULATORY INFORMATION

Follow all local 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 this company.

-- END OF MSDS --