



SHANGHAI BOSMAN INDUSTRIAL CO., LTD.

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MATERIAL SAFETY DATA SHEET OF

BOSCALAID 25.2% WDG

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Supplier: Shanghai Bosman Industrial Co., Ltd.

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

FAX: +86 21 63065878

TEL: +86 21 63065878

Product name: Boscalid 25.2% WDG

2. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation Type: Water disperse granule (WDG)

IUPAC: 2-chloro-N-(4'-chlorobiphenyl-2-yl)nicotinamide

Other ingredients determined not to be hazardous

Ingredient	CAS NO.	Proportion
Boscalid	188425-85-6	25.2%
other ingredients	Not available	Balance

3. HAZARDS IDENTIFICATION

Emergency overview

CAUTION:

POISON: Potential skin sensitizer.

WARNING:

Causes eye irritation.

KEEP OUT OF REACH OF CHILDREN.

HARMFUL IF SWALLOWED.

Do not get in eyes, on skin, or on clothing.

Potential health effects

Acute toxicity: Harmful if swallowed.

Irritation / corrosion: Irritating to eyes and respiratory system. Prolonged contact with the product can result in skin irritation.

Sensitization: Skin sensitizing effects were not observed in animal studies. Some individuals may develop an allergic dermatitis.

Medical conditions aggravated by overexposure: Individuals with allergic history or pre-existing dermatitis should use extra precautions when handling this product.

Potential environmental effects

Aquatic toxicity: Acutely toxic for aquatic organisms.

Terrestrial toxicity: With high probability not acutely harmful to terrestrial organisms.

Degradation / environmental fate: Not readily biodegradable (by OECD criteria).

4. FIRST AID MEASURES

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure. Immediately consult a doctor.

Inhalation: Immediately remove source of contamination or move victim to fresh air. If breathing has stopped, perform artificial respiration and administer oxygen. Avoid mouth-to-mouth resuscitation. Keep person warm and at rest. Treat symptomatically and supportively as and when required. Seek medical advice immediately.

Skin contact: Remove contaminated clothing, shoes and leather goods immediately. Gently wipe off excess chemical. Wash skin gently and thoroughly with non-abrasive soap or mild detergent and large amounts of water until no evidence of chemical remains (approximately 15 to 20 minutes). Seek medical advice if necessary.

Eye contact: Flush eyes immediately with large amounts of gently flushing water or normal saline solution, occasionally lifting upper and lower lids, until no evidence of chemical remains (approximately 15 to 20 minutes). If irritation persists, get medical attention.

Ingestion: Have victim rinse mouth thoroughly with water. Do not induce vomiting, due to the aromatic solvent. Seek medical advice immediately. If the person is alert and respiration is not depressed, give large quantity of water to drink. Never give anything by mouth to an unconscious person. Establish and maintain airway. Treat respiratory difficulty with artificial respiration and oxygen. Qualified medical personnel should perform administration of gastric lavage or oxygen.

Advice to physician: There is no specific antidote, treatment symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing agents:

Extinguish fires with carbon dioxide, dry powder, or alcohol-resistant foam. Water spray can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Use as little water as possible. Use spray or fog. Solid stream may cause spreading. Contain water used for fire fighting for later disposal. Avoid the accumulation of polluted run-off from the site.

Firefighting:

Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Dyke fire control water for later disposal. Do not scatter the material. Avoid pollution of waterways. Do not use high volume water jet, due to contamination risk. Contain water used for fire fighting for later disposal. Avoid the accumulation of polluted run-off from the site.

Personal protective equipment:

Fire may produce irritating or poisonous vapours or gases (oxides of chlorine and sulphur) or other products of combustion. Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENT RELEASE MEASURES**Personal precautions:**

Avoid contact with skin and eyes. Do not breathe in fumes. For personal protection see Section 8.

Environmental precautions:

Do not apply on directly to water, to areas where surface water is present or to intertidal areas below the mean mark. Do not contaminate water by disposal of equipment washwaters. In case of spills properly dispose of contaminated materials.

Occupational spill:

Do not touch-spilled material; stop leak if you can do it without risk. Keep out unprotected persons and animals. For spills: Soak up with absorptive material such as damp earth or sand or other suitable non-combustible absorbent material. Place the material into a clean, dry container and cover for subsequent disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Prevent material from spreading by damming in with absorptive material. Do not flush spilled material into drains. Keep spectators away and upwind.

To decontaminate spill area, tools and equipment, wash with a suitable solution (i.e. organic solvent,



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detergent bleach or caustic). Add the solution to the drums already collected. Label drums with its content and dispose it in accordance with local regulations. Open burning or dumping of this material is prohibited.

7. HANDLING AND STORAGE

Handling:

Harmful if swallowed. Avoid inhalation and contact with eyes and skin. Use with adequate ventilation. Do not handle broken packages without protective equipment. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Remove clothing immediately if the product gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. Seek medical advice. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination. Worker should shower at the end of each work day. Launder all clothing before it is re-used again.

Storage:

Store in its original container in dry, cool, well-ventilated area. Avoid excess heat. Not to be stored next to foodstuffs and water supplies. Keep out of reach of children, uninformed persons and animals. Do not contaminate other pesticides and fertilizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

Exposure controls

Engineering Controls

Showers, Eyewash stations, Ventilation systems

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and Body Protection

Wear protective gloves and protective clothing.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection

should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Environmental exposure controls No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Granule
Appearance	: Off-white
Odour	: Faint odor
pH	: 5.0-9.0
Explosion Properties	: Not explosive
Solubility	: Disperse in water

10. STABILITY AND REACTIVITY

Chemical stability

Stability Stable under recommended storage conditions.

Hazardous polymerization

No information available.

Hazardous decomposition:

None expected under normal use.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity LD50 for rats >5000 mg/kg.

Acute skin and eye toxicity: LD50 for rats >2000 mg/kg.

Acute skin or eye irritation: Not a skin or eye irritant (rabbits).

Acute skin sensitization: Not a skin sensitiser (guinea pigs).

Acute Inhalation: LC50 (4 h) for rats >6.7 mg/l.

Chronic toxicity

NOEL for rats c. 5 mg/kg b.w.; chronic NOAEL 21.8 mg/kg b.w.. (EPA Fact Sheet).

Other

Non-mutagenic (Ames, mice), non-teratogenic (rats, rabbits), non-carcinogenic (dogs, rats, mice); no adverse effects on reproduction (rats).

12. ECOLOGICAL INFORMATION

Birds LD50 for bobwhite quail >2000 mg/kg b.w. Fish LC50 (96 h) for rainbow trout 2.7 mg/l.

Daphnia EC50 (48 h) 5.33 mg/l.

Algae ErC50 (96 h) for *Pseudokirchneriella subcapitata* 3.75 mg/l.

Other aquatic spp. NOEC for *Chironomus riparius* 2.0 mg/l.

Bees NOEC (oral) 166 µg/bee; (contact) 200 µg/bee.

Worms LC50 for *Eisenia foetida* >1000 mg/kg dry soil.

13. DISPOSAL CONSIDERATION

Product Disposal Dispose of product only by using according to the label, or at an approved landfill.

Container Disposal Triple rinse empty container and add rinsate to the spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

14. TRANSPORT INFORMATION

ADR/RID

U.N. Number 3077

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains BOSCALID)

UN classification: 9

IMDG

U.N. Number 3077

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains BOSCALID)

UN classification: 9

Packing Group III

IATA

U.N. Number 3077

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
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UN classification: 9



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Packing Group III

15. REGULATORY INFORMATION

Follow local, international laws and regulations.

16. OTHER INFORMATION

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 --