

Material Safety Data Sheet

SECTION 1 IDENTIFICATION

Product Name: Pyraclostrobin 13% + Boscalid 25% WDG

Chemical name: Methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxymethyl}phenyl}(Nmethoxy) carbamate (Pyraclostrobin)

2-Chloro-N-(4'-chlorobiphenyl-2-yl)nicotinamide (Boscalid)

Other means of identification: /

Recommended use of the chemical and restrictions on use: This material is a kind of pesticide.

Company / Undertaking Identification

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SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Skin Corrosion/Irritation Category 3, Skin Sensitization Category 1, Carcinogenicity Category 1, Specific Target Organ Toxicity - single exposure Category 1 (nervous system), Specific Target Organ Toxicity - repeated exposure Category 2 (blood system, duodenum, liver), Acute Aquatic Hazard Category 2, Chronic Aquatic Hazard Category 2.

GHS Label elements, including precautionary statements



Signal word: Danger.

Hazard statement(s): Causes mild skin irritation. May cause an allergic skin reaction. May cause cancer. Causes damage to organs (nervous system). May cause damage to organs through prolonged or repeated exposure (blood system, duodenum, liver). Toxic to aquatic life with long lasting effects.

Precautionary statement(s):

Prevention:

Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/ vapors / spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment.

Response:

IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see below). Take off contaminated clothing. And wash it before reuse. IF exposed or concerned: Call a POISONCENTER/doctor. Specific treatment (see below). Collect spillage.

Storage

Store locked up.

Disposal:

Dispose of contents/container to...

Other hazards which do not result in classification: /

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration%
Pyraclostrobin	175013-18-0	13
Boscalid	188425-85-6	25
Adjuvants	/	Up to 100%

SECTION 4 FIRST AID MEASURES**Description of necessary 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: Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed: /

Indication of immediate medical attention and special treatment needed: /

SECTION 5 FIREFIGHTING MEASURES

Suitable extinguishing media: Foam. Dry chemical powder. Carbon dioxide. Water spray or fog - Large fires only.

Special hazards arising from the chemical: Combustible solid which burns but propagates flame with difficulty.

Special protective actions for fire-fighters: Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Remove all ignition sources. Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact with the

substance, by using protective equipment.

Environmental precautions: Prevent, by any means available, spillage from entering drains or water courses.

Methods and materials for containment and cleaning up: Minor Spills: Use dry clean up procedures and avoid generating dust. Place in a suitable, labelled container for waste disposal. Major Spills: IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal. ALWAYS: Wash area down with large amounts of water and prevent runoff into drains. If contamination of drains or waterways occurs, advise Emergency Services.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling: Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling.

Conditions for safe storage, including any incompatibilities: Store in original containers. Keep containers securely sealed. Store in a cool, dry area protected from environmental extremes. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this MSDS.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters: /

Appropriate engineering controls: Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances.

Personal protective equipment

Eye/face protection: Safety glasses with side shields. Chemical goggles.

Skin protection: Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber.

Respiratory protection: Particulate.

Thermal hazards: /

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Off-white granule
Odour	/
Odour Threshold	/
pH	5.0-8.0
Wet Sieve Test	Min. 98% pass 75µm test sieve

Persistent Foam	25mL Max. after 1 minute
Wetting Time	60 s Max.
Water Content	5.0%
Suspensibility	80% Min.
Dispersibility	≥ 80%
Particle-size range (350µm-1200µm)	≥ 90%
Melting point/freezing point	/
Initial boiling point and boiling range	/
Flash point	Non-flammable
Evaporation rate	/
Flammability (solid, gas)	/
Upper/lower flammability or explosive limits	/
Vapour pressure (kPa)	/
Vapour density	/
Relative density	Soluble in water
Water solubility	/
Partition coefficient: noctanol/water	/
Autoignition temperature	/
Decomposition temperature	/
Viscosity	/

SECTION 10 STABILITY AND REACTIVITY

Reactivity: /

Chemical stability: Product is considered stable under normal handling conditions.

Possibility of hazardous reactions: Product is considered stable.

Conditions to avoid: Heat, flames and sparks.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Carbon monoxide (CO), carbon dioxide (CO₂), hydrogen chloride, phosgene, nitrogen oxides (NO_x), other pyrolysis products typical of burning organic material.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure: Inhaled, Ingestion, skin, eyes.

Symptoms related to the physical, chemical and toxicological characteristics: /

Acute health effects

The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation. Accidental ingestion of the material may be harmful. Skin contact is not thought to produce harmful health effects. Although the material is not thought to be an irritant, direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn).

Chronic health effects: /

Numerical measures of toxicity (such as acute toxicity estimates):

Acute Oral Toxicity (Rat) : LD₅₀ > 5000 mg/kg
Acute Dermal Toxicity (Rat) : LD₅₀>5000 mg/kg
Acute Inhalation Toxicity (Rat) : LC₅₀(2h)>5.0 mg/L
Acute Eyes Irritation (Rabbit) : Non-irritant
Acute Dermal Irritation (Rabbit) : Non-irritant
Skin Sensitization(Guinea Pig) : Non-sensitizer

SECTION 12 ECOLOGICAL INFORMATION

Toxicity:

Toxicity to Fish : Acute toxicity for Zebra fish LC₅₀ (96h) = 0.202 mg a.i./L, high toxicity;
Toxicity to Bird: Acute oral toxicity for Quail LD₅₀ (7d) > 2000 mg a.i./L·bw, low toxicity;
Toxicity to Bee : Acute oral toxicity LC₅₀ (48h) >1373 mg a.i. /L, low toxicity;
Acute dermal toxicity LD₅₀ (48h) > 100 µg a.i.bee⁻¹, low toxicity;
Toxicity to Daphnia Magna: LC₅₀ (48h) = 0.365 mg a.i./L, high toxicity;
Toxicity to Green alga: EC₅₀ (72h) = 2.88 mg a.i. /L, moderate toxicity;
Toxicity to Earthworm: LC₅₀ (14d)>100 mg a.i. /kg dry soil, low toxicity;
Toxicity to Trichogramma: LR₅₀(24h) >1.69×10⁻⁴ mg a.i./cm²;
Toxicity to silkworm: LC₅₀(96 h) =11.7 mg a.i. /L, high toxicity

Persistence and degradability: /

Bioaccumulative potential: /

Mobility in soil: /

Other adverse effects: /

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods: Recycle wherever possible or consult manufacturer for recycling options. Consult Land Waste Authority for disposal. Bury or incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 TRANSPORT INFORMATION

UN number: 3077.

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

Transport hazard class(es): 9.

Packaging group: III.

Environmental hazards: Marine pollutant.

Special precautions for user: /

SECTION 15 REGULATORY INFORMATION

Regulations:

This safety data sheet is in compliance with the following national standards: GB/T 16483-2008, GB13690-2009, GB18218-2009, GB15258-2009, GB6944-2012, GB190-2009, GB191-2009, GB12268-2012, GA57-1993, GB/T 15098-2008, GBZ 2-2007 as well as the following national regulations: Dangerous Goods Transport Administrative Regulation, Dangerous Chemicals Safety Administrative

Regulation.

SECTION 16 OTHER INFORMATION

References	“Model Regulations on the Transport of Dangerous Goods” “The Globally Harmonized System of Classification and Labelling of Chemicals”
Form Date	21-February-2017

Note 1: When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.

Note 2: Manufacturer / supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.

Note 3: As a result of product features without the existence of certain information (such as boiling point does not exist for the solid) in the table with "/" logo.