

Material Safety Data Sheet

SECTION 1 IDENTIFICATION

Product Name: Pyraclostrobin 5% + Metiram 55% WDG (DF) MSDS

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

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:

Carcinogenicity Category 1.

Skin Sensitization Category 1.

Skin Corrosion/Irritation Category 3.

Serious Eye Damage/Eye Irritation Category 2B.

Specific Target Organ Toxicity - Single Exposure Category 1 (nervous system).

Specific Target Organ Toxicity - Repeated Exposure Category 2 (blood system, duodenum, liver).

Hazardous to the Aquatic Environment - Acute Hazard Category 1.

Hazardous to the Aquatic Environment - Long Term Hazard Category 2.

GHS Label elements, including precautionary statements



Signal word: Danger.

Hazard statement(s): Combustible liquid. Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye damage. Causes damage to organs (nervous system). May cause damage to organs through prolonged or repeated exposure (blood system, duodenum,

liver). Very toxic to aquatic life with long lasting effects.

Precautionary statement(s):

Prevention: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not breathe dust/fume/gas/mist/ vapors / spray. Do not eat, drink or smoke when using this product. Avoid release to the environment.

Response:

In case of fire: Use foam, dry chemical powder, water spray to extinguish.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor/if you feel unwell. IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor/if you feel unwell. Specific treatment (see next). Take off contaminated clothing. And wash it before reuse. If skin irritation occurs: Get medical advice/attention. 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/doctor. IF exposed or concerned: Call a POISONCENTER/doctor. Specific treatment (see next). Get medical advice/attention if you feel unwell. Collect spillage.

Storage: Store in well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification: /

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Concentration, w/v, g/L
Pyraclostrobin	175013-18-0	5
Metiram	9006-42-2	55
Adjuvants	/	40

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 Ingestion: Rinse your mouth with water. Seek medical attention.

Most important symptoms/effects, acute and delayed: /

Indication of immediate medical attention and special treatment needed, if necessary: /

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: A flammable solid that can burn but does not easily spread flame.

Special protective actions for fire-fighters: Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. 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: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Environmental precautions: Stop leak if safe to do so. Prevent, by any means available, spillage from entering drains or water course.

Methods and materials for containment and cleaning up: Minor Spills: Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Major Spills: Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. If drains or bodies of water are contaminated, report them to 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. Avoid smoking, naked lights or ignition sources. 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.

Conditions for safe storage, including any incompatibilities: Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. 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 SDS.

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.

Individual protection measures

Eye/face protection: Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

Skin protection: Wear chemical protective gloves, eg. PVC. Wear safety footwear or safety gumboots, eg. Rubber. Impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant.

Thermal hazards: /

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, colour etc)	Brown powder
Odour	N/A
Odor Threshold	N/A
pH	6.0-9.0
Wet Screen Test	98% passed 75µm test screen
Suspension Ratio	≥90%
Dispersivity	≥80%
Particle Size (350µm-1200µm)	≥90%
Melting point/freezing point	N/A
Initial boiling point and boiling range	N/A
Flash point	N/A
Evaporation rate	N/A
Flammability (solid, gas)	N/A
Upper/lower flammability or explosive limits	N/A
Vapour pressure	N/A
Vapour density	N/A

Relative density	N/A
Solubility(ies)	N/A
Partition coefficient: n-octanol/water	N/A
Auto-ignition temperature	N/A
Decomposition temperature	N/A
Viscosity	N/A

SECTION 10 STABILITY AND REACTIVITY

<p>Reactivity: /</p> <p>Chemical stability: Product is considered stable.</p> <p>Possibility of hazardous reactions: Avoid reaction with oxidising agents.</p> <p>Conditions to avoid: Heat, flames and sparks.</p> <p>Incompatible materials: Oxidizing agents.</p> <p>Hazardous decomposition products: Carbon monoxide (CO), carbon dioxide (CO₂), hydrogen chloride, phosgene, nitrogen oxides (NO_x), other pyrolysis products typical of burning organic material.</p>

SECTION 11 TOXICOLOGICAL INFORMATION

<p>Information on the likely routes of exposure: Inhaled, swallowed, skin, eyes.</p> <p>Symptoms related to the physical, chemical and toxicological characteristics: /</p> <p>Acute health effects:</p> <p>Inhalation: Inhalation of aerosols (mists, fumes) may be damaging to the health of the individual.</p> <p>Ingestion: Accidental ingestion of the material may be harmful.</p> <p>Skin: Skin contact with the material may be harmful; systemic effects may result following absorption.</p> <p>Eyes: The material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions.</p> <p>Chronic health effects: Repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.</p> <p>Numerical measures of toxicity (such as acute toxicity estimates):</p> <p>Acute Oral Toxicity (Rat): LD₅₀ = 3162.3 mg/kg body weight</p> <p>Acute Dermal Toxicity (Rat): LD₅₀ = 5000 mg/kg body weight</p> <p>Acute Inhaled Toxicity (Rat): LC₅₀ (2h) > 5mg/L</p> <p>Acute Eyes Irritation (Rabbit): Moderate irritation</p> <p>Acute Dermal Irritation (Rabbit): Moderate irritation</p>
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Skin Sensitization(Guinea Pig): Weak sensitiser

SECTION 12 ECOLOGICAL INFORMATION

Toxicity:

Birds (bobwhite quail) :	Acute oral LD ₅₀ > 2000 mg/kg body weight. Dietary LC ₅₀ (5d) > 5000 mg a.s./kg body weight/day.
Fish (rainbow trout) :	LC ₅₀ (96 h) = 1.28 mg/L.
Bees:	Oral LD ₅₀ > 2000 µg/bee; Contact LD ₅₀ = 1.15 µg/bee.
Daphnia:	EC ₅₀ (48 h) = 0.128 mg/L.
Algae (Pseudokirchneriella subcapitata) :	E _r C ₅₀ (72 h) = 0.97 mg/L.
Earthworms(eisenia foetida):	LC ₅₀ > 100 mg/kg soil.

Persistence and degradability: /

Bioaccumulative potential: /

Mobility in soil: /

Other adverse effects: /

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods: Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible material). Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14 TRANSPORT INFORMATION

UN Number: 3077.

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

Transport hazard class(es) : 9.

Packing group, if applicable: III.

Environmental hazards: Marine pollutant.

Special precautions for user: /

SECTION 15 REGULATORY INFORMATION

Regulations: This Material Safety Data Sheet is in compliance with the following national standards: GB/T 16483-2008, GB 13690-2009, GB 18218-2009, GB15258-2009, GB6944-2012, GB 190-2009, GB/T 191-2008, GB12268-2012, GA 57-1993, GB/T 15098-2008, GBZ 2-2007 as well as the following national regulations: Dangerous Goods Transport Administrative Regulation [Published by the Ministry of Railways, 2008], Dangerous Chemicals Safety Administrative Regulation [Published by the State Council, 2011].

SECTION 16 OTHER INFORMATION

References	UN Recommendations on the Transport of Dangerous Goods Model Regulations UN Globally Harmonized System of Classification and Labeling of Chemicals
Form Date	22-AUG-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 or no data available (such as boiling point does not exist for the solid) in the table with "/" logo.