

## MATERIAL SAFETY DATA SHEET

### SECTION 1 IDENTIFICATION

**Product Name:** Pyraclostrobin 25% SC

**Other Means of identification:** /

**Chemical name:**

Methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yl] oxymethyl}phenyl}

(Nmethoxy)Carbamate

**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.

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 1.

**GHS Label elements, including precautionary statements:**



**Signal word:** Danger.

**Hazard statement(s):** Causes mild skin irritation. 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:** Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment.

**Response:** If skin irritation occurs: Get medical advice/attention. If exposed or concerned: Call a poison center/doctor. Specific treatment (see under for further information). Get medical advice/attention if you feel unwell. Collect spillage.

**Storage:** 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/w, %
Pyraclostrobin	175013-18-0	25
Adjuvants	/	75

**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:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**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:** Use foam, chemical powder or water spray.

**Special hazards arising from the chemical:** This material may decompose and burn at high temperature and fire and release toxic fumes.

**Special protective actions for fire-fighters:** Wear self-contained breathing apparatus for

firefighting if necessary. Use water spray to cool unopened containers. In case of fire in the surroundings, use appropriate extinguishing media.

## 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:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up:** Contain spillage and collect with pump and place in a clean container for disposal according to local regulations.

## SECTION 7 HANDLING AND STORAGE

**Precautions for safe handling:** Wear protective gloves/eye protection/face protection/protective clothing. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking.

**Conditions for safe storage, including any incompatibilities:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from flammable materials and oxidizers.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters:** /

**Appropriate engineering controls:** Local exhaust ventilation or a process enclosure ventilation system may be required.

**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, e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber. Impervious clothing.

**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

<b>Appearance (physical state, colour, etc.)</b>	Off-white or white viscous liquid
<b>Odour</b>	Weak characteristic odour
<b>pH</b>	5.0-8.0
<b>Wet Sieve Test</b>	Min. 98% pass 75µm test sieve
<b>Persistent Foam</b>	25 mL Max. after 1 minute
<b>Suspensibility</b>	90% Min.
<b>Pourability</b>	Residue after Pouring: 3.0% Max. Residue after Rinsing: 0.5% Max.
<b>Melting point/freezing point</b>	101.6°C
<b>Initial boiling point and boiling range</b>	N/A
<b>Flash point</b>	Non-flammable
<b>Evaporation rate</b>	N/A
<b>Flammability (solid, gas)</b>	N/A
<b>Upper/lower flammability or explosive limits</b>	N/A
<b>Vapour pressure</b>	N/A
<b>Vapour density</b>	N/A
<b>Relative density</b>	1.07 ± 0.05 g/mL at 20°C
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient: n-octanol/water</b>	N/A
<b>Auto-ignition temperature</b>	N/A
<b>Decomposition temperature</b>	N/A
<b>Viscosity</b>	N/A

## SECTION 10 STABILITY AND REACTIVITY

**Reactivity:** /

**Chemical stability:** This material is stable in normal temperature.

**Possibility of hazardous reactions:** /

**Conditions to avoid:** Spark, static electricity and high temperature.

**Incompatible materials:** Flammable materials and oxidizers.

**Hazardous decomposition products:** Oxycarbides, oxynitride, chlorides, etc.

**SECTION11 TOXICOLOGICAL INFORMATION**

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

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

**Acute health effects:** Accidental ingestion of the material may be harmful and cause cough and throat pain. Oral intake may cause headache, giddiness, vomit and other symptoms. This material may produce skin and eyes irritation.

**Chronic health effects:** Repeated or prolonged exposure to this material may cause skin allergy.

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

Acute Oral Toxicity (Rat): LD<sub>50</sub> is 500 mg/kg body weight, be classified in GHS Category 4.

Acute Dermal Toxicity (Rat): LD<sub>50</sub> > 2000 mg/kg body weight, be classified in GHS Category 5.

Acute Inhalation Toxicity (Rat) LC<sub>50</sub>(4h) > 5.02 mg/L, unclassified in GHS.

Acute Eyes Irritation (Rabbit) Non-irritant, could not classified according to GHS.

Acute Dermal Irritation (Rabbit): Non-irritant, could not classified according to GHS.

Skin Sensitization (Guinea Pig): Non-sensitizer.

ADI: 0.03 mg/kg body weight

**SECTION 12 ECOLOGICAL INFORMATION**

**The following data is from Pyraclostrobin technical:**

**Toxicity:**

Birds (bobwhite quail) : Acute oral LD<sub>50</sub> > 2000 mg/kg body weight

Dietary LC<sub>50</sub>(5d) > 1176 mg a.s./kg body weight/day.

Fish (rainbow trout) : LC<sub>50</sub> (96 h) = 0.006 mg/L.

Bees: Oral LD<sub>50</sub> > 73.1 µg/bee; Contact LD<sub>50</sub> > 100 µg/bee.

Daphnia: EC<sub>50</sub> (48 h) = 0.016 mg/L.

Algae (Pseudokirchneriella) E<sub>r</sub>C<sub>50</sub> (72 h) > 0.843 mg/L.

subcapitata) :

E<sub>b</sub>C<sub>50</sub> (72 h) = 0.152 mg/L.

Worms: LC<sub>50</sub> = 567 mg/kg soil.

**Persistence and degradation:** /

**Bioaccumulative potential:** /

**Mobility in soil:** /

**Other adverse effects:** /

### SECTION 13 DISPOSAL CONSIDERATIONS

**Disposal methods:** Burial in a land-fill specifically licensed to accept chemical. Reuse of broken container is forbidden.

### SECTION 14 TRANSPORT INFORMATION

**UN Number:** 3082.

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

**Transport hazard class(es) :** 9.

**Packing group, if applicable:** III.

**Environmental hazards:** Severe 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 16483-2008, GB 13690-2009, GB/T 15098-2008, GB 18218-2009, GB 15258-2009, GB 6944-2012, GB 190-2009, GB 191-2009, GB 12268-2008, GA 57-1993, 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

<b>References</b>	UN Recommendations on the Transport of Dangerous Goods Model Regulations UN Globally Harmonized System of Classification and Labeling of Chemicals
<b>Form Date</b>	15-September-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.