Kqiao®
山东康乔生物科技有限公司
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Material Safety Data Sheet

SECTION 1 IDENTIFICATION

Product Name: Pyraclostrobin 15% + Difenoconazole 25% SC
Chemical name: Methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxymethyl]phenyl} (Nmethoxy) carbamate (Pyraclostrobin)
cis,trans-3-chloro-4-[4-methyl-2-(1*H*-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-2-yl]phenyl 4-chlorophenyl ether (Difenoconazole)
Other means of identification: /
Recommended use of the chemical and restrictions on use: /
Company / Undertaking Identification
Company Name: Shandong Kangqiao Bio-technology Co., Ltd.
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SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture
Skin Corrosion/Irritation Category 3, Carcinogenicity Category 2, Reproductive Toxicity Category 1B, 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. Suspected of causing cancer. May damage fertility or the unborn child. 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:
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/ vapors / spray. Wash … thoroughly after

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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 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, w/w, %
Pyraclostrobin	175013-18-0	15
Difenoconazole	106325-08-0	25
Adjuvants	/	60

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: Use water spray, chemical powder, CO_2, foam.

Special hazards arising from the chemical: Non combustible. Not considered a significant fire risk, however containers may burn.

Special protective actions for fire-fighters: Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses. Use water delivered as a fine spray to control fire and cool adjacent 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: Clean up all spills

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immediately. Avoid breathing vapours and 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 course.
Methods and materials for containment and cleaning up: Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Neutralise / decontaminate residue. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.

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.
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.
Skin protection: Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber.
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	White liquid
Odour	N/A
Odour Threshold	N/A
pH	6.0-8.0

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Wet Sieve Test	Min. 99% pass 75μm test sieve
Persistent Foam	25mL Max. after 1 minute
Suspensibility	90% Min.
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 (kPa)	N/A
Vapour density	N/A
Relative density	N/A
Water solubility	N/A
Partition coefficient: noctanol/water	N/A
Autoignition temperature	N/A
Decomposition temperature	N/A
Viscosity	N/A

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 (CO_2), 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):
For Difenoconazole:
Acute Oral Toxicity (Rat): LD_{50} = 1453 mg/kg body weight, Be classified

	in GHS Category 5.
Acute Dermal Toxicity (Rat):	$LD_{50} \leq 5000$ mg/kg body weight, Be classified in GHS Category 5.
Acute Inhalation Toxicity (Rat)	LC_{50} (4h) > 3.28 mg/L, Be classified in GHS Category 3.
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.

For Pyraclostrobin:

Acute Oral Toxicity (Rat):	Cut off-value: 2000 < $LD_{50} \leq 5000$ mg/kg body weight, Be classified in GHS Category 5.
Acute Dermal Toxicity (Rat):	2000 < $LD_{50} \leq 5000$ mg/kg body weight, Be classified in GHS Category 5.
Acute Inhalation Toxicity (Rat)	LC_{50} (4h) > 0.65 mg/L, Be classified in GHS Category 3.
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

Toxicity:

For Difenoconazole （data from pesticide annual 6.0）

Birds (bobwhite quail) :	Acute oral LD_{50} >2150 mg/kg body weight
Fish (rainbow trout) :	LC_{50} (96 h) = 0.006 mg/L.
Bees:	Oral LD_{50}=187 μg/bee; Contact LD_{50} >100 μg/bee.
Daphnia:	EC_{50} (48 h) =0.77 mg/L.
Algae (Pseudokirchneriella subcapitata) :	E_rC_{50} (72 h) =0.03 mg/L;
Worms:	LC_{50}>610 mg/kg soil

For Pyraclostrobin:

Birds (bobwhite quail) :	Acute oral LD_{50} >2000 mg/kg body weight
	Dietary LC_{50} (5 d) >1176 mg a.s./kg bo

	weight/day.
Fish (rainbow trout) :	LC_{50} (96 h) = 0.006 mg/L.
Bees:	Oral LD_{50} > 73.1 μg/bee; Contact LD_{50} >100 μg/be
Daphnia:	EC_{50} (48 h) =0.016 mg/L.
Algae (Pseudokirchneriella subcapitata) :	E_rC_{50} (72 h) >0.843 mg/L;
	E_bC_{50} (72 h) = 0.152 mg/L.
Worms:	LC_{50} = 567 mg/kg soil

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: 3082.
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, 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	28-Febuary-2017

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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.