

Indofil Industries Ltd

Chemwatch: **28-2900** Version No: **3.1** Safety Data Sheet Chemwatch Hazard Alert Code: 2

Issue Date: 22/06/2020 Print Date: 08/05/2024 L.GHS.IND.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	PICOXYSTROBIN
Chemical Name	Not Available
Synonyms	C18-H16-F3-N-O4; picoxystrolin; methyl (E)-3-methoxy-2-{2-[6-(trifluoromethyl) -2-pyridyloxymethyl]phenyl}acrylate; methyl (E)- alpha-(methoxymethylene)-2-[[[6-(trifluoromethyl)-2-pyridinyl]oxy]methyl]-benzeneacetate; methyl (2E)-3-methoxy-2-{2-[6- (trifluoromethyl)-2-pyridyloxymethyl]phenyl}acrylate; methyl (alphaE)-a-(methoxymethylene)-2-[[[6-(trifluoromethyl)-2- pyridinyl]oxy]methyl]benzeneacetate; ZA1963; ZA-1963; fungicide/ pesticide; methoxyacrylate strobilurin fungicide; Acanta Prima; Credo; Furlong; Galileo
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains picoxystrobin)
Chemical formula	C 18 H 16 F 3 NO 4
Other means of identification	Not Available
CAS number	117428-22-5

Relevant identified uses of the substance or mixture and uses advised against

	A broad-spectrum cereal fungicide used to control a wide range of diseases including rusts and mildews. Preventative and
Relevant identified uses	curative action. Often supplied as a soluble concentrate that is mixed with water and used as a spray.
	Fungicide.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Indofil Industries Ltd
Address	Kalpataru Square, 4th Floor, Kondivita Road, Off. Andheri Kurla Road, Andheri (E) Maharashtra, India. Mumbai 400 059 India
Telephone	1800-120-003-004
Fax	Not Available
Website	www.indofil.com
Email	customercare@indofil.com

Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	+918000403230
Other emergency telephone numbers	+61 3 9573 3188

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SECTION 2 Hazards identification

Classification of the substance or mixture

Chemwatch Hazard Ratings

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PICOXYSTROBIN

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Classification Acute Toxicity (Inhalation) Category 4, Hazardous to the Aquatic Environment Long-Term Hazard Category 1

Label elements

Hazard pictogram(s)	
Signal word	Warning

Hazard statement(s)

H332	Harmful if inhaled.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s) Prevention

P271	Use only outdoors or in a well-ventilated area.

Precautionary statement(s) Response

P312 Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
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Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

CAS No	%[weight]	Name
117428-22-5	>98	picoxystrobin

Mixtures

See section above for composition of Substances

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	 If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

Foam.

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
Advice for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard.
Fire/Explosion Hazard	 Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions. Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) hydrogen fluoride nitrogen oxides (NOx) other pyrolysis products typical of burning organic material.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. Environmental hazard - contain spillage.
Major Spills	Environmental hazard - contain spillage. Moderate hazard.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling	 Avoid all personal contact, including inhalation. Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions) Minimise airborne dust and eliminate all ignition sources.
Other information	Store in original containers.

Conditions for safe storage, including any incompatibilities

S	uitable container	▶ Pol	yethylene or p	olypropylene	container.	
Storag	e incompatibility	strobilu other ty present	rins (mucidine pes of compo red).	es), 9-methoxy	-strobilurins, o y bearing term	esent in many naturally occurring biologically active substances such as budemansins, "folines", "mitra, rhyncophylline, corynox"-derivatives and some ninal methoxygroup (no ethoxy or carbethoxy group in all compounds is
~	~	~	~	~	~	▲



0 — May be stored together with specific preventions

+ - May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
PICOXYSTROBIN	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
-				
picoxystrobin	Not Available		Not Available	

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
picoxystrobin	E	≤ 0.01 mg/m³	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

MATERIAL DATA

It is the goal of the ACGIH (and other Agencies) to recommend TLVs (or their equivalent) for all substances for which there is evidence of health effects at airborne concentrations encountered in the workplace.

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
Individual protection measures, such as personal protective equipment	
Eye and face protection	 "Safety glasses with side shields Chemical goggles.
Skin protection	See Hand protection below
Hands/feet protection	The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.
Body protection	See Other protection below
Other protection	▶ Overalls.

Respiratory protection

Type -P Filter of sufficient capacity.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	-	PAPR-P1 -
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

* - Negative pressure demand ** - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

· Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

• The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

· Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

· Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.

· Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

 \cdot Use approved positive flow mask if significant quantities of dust becomes airborne.

 \cdot Try to avoid creating dust conditions.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Cream-coloured solid; does not mix well with water (3.1 mg/l, 20 C). Solubilities (g/l, 20 C): n-heptane 6, 1,2-dichloroethane Appearance >250, methanol 96, acetone >250, ethyl acetate >250, xylene >250 Relative density (Water = Physical state **Divided Solid** 1.4 g/cm3 (20 C) 1) Partition coefficient n-Odour Not Available 3.6 octanol / water Auto-ignition temperature Odour threshold Not Available Not Available (°C) Decomposition Not Applicable Not Available pH (as supplied) temperature (°C) Melting point / freezing 75 Viscosity (cSt) Not Applicable point (°C) Initial boiling point and Not Applicable Molecular weight (g/mol) 367.3 boiling range (°C) Flash point (°C) Not Available Not Available Taste Evaporation rate **Explosive properties** Not Available Not Applicable Not Available **Oxidising properties** Not Available Flammability Surface Tension (dyn/cm **Upper Explosive Limit (%)** Not Available Not Applicable or mN/m) Volatile Component (%vol) Lower Explosive Limit (%) Not Available Negligible Vapour pressure (kPa) 5.5x10-9 Gas group Not Available Solubility in water Partly miscible pH as a solution (1%) Not Applicable Vapour density (Air = 1) Not Applicable VOC g/L Not Applicable

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	Inhalation of dusts, generated by the material, during the course of normal handling, may be harmful. The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled.
Ingestion	The material is not thought to produce adverse health effects following ingestion (as classified by EC Directives using animal models).
Skin Contact	Skin contact is not thought to produce harmful health effects (as classified under EC Directives using animal models).

PICOXYSTRO	BIN
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	Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects.
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Chronic	Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems. Subchronic studies, with some strobilurin fungicides (trifloxystrobin, for example), demonstrate that their primary adverse toxic effect occurs in the liver and kidneys, at high doses.
	Long term exposure to high dust concentrations may cause changes in lung function (i.e. pneumoconiosis) caused by particles less than 0.5 micron penetrating and remaining in the lung.

	ΤΟΧΙΟΙΤΥ	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg ^[2]	Eye: adverse effect observed (irritating) ^[1]	
picoxystrobin	Inhalation (Rat) LC50: 0.11 mg/l4h ^[1]	Skin: no adverse effect observed (not irritating) ^[1]	
	Oral (Mammal) LD50; >2000 mg/kg ^[1]		
Legend:	 Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances 		

PICOXYSTROBIN	Inhalation (Rat) LC50: <4590 mg/m3/4h * nose DIRECTORATE-GENERAL	* EUROPEAN COMMISSION HEA	LTH & CONSUMER PROTECTION
Acute Toxicity	¥	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend: X − Data either not available or does not fill the criteria for classification ✓ − Data available to make classification

SECTION 12 Ecological information

Toxicity					
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96h	Fish	0.065mg/L	Not Available
	EC50	72h	Algae or other aquatic plants	0.056mg/L	2
picoxystrobin	EC50	48h	Crustacea	0.02mg/L	Not Available
	EC50(ECx)	48h	Crustacea	0.02mg/L	Not Available
	EC50	96h	Algae or other aquatic plants	0.004mg/l	2
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

Koc 965 Kd 14.7 BCF 290 DT50 range 19-33 days, DT90 range 90-131 days, field studies range 3-35 days, DT90 range 42-364 days Bird acute LD50: bobwhite quail>2250 mg/kg Bird dietary LD50 bobwhite quail, mallard duck >5200 mg/kg Fish LC50 (96 h): Oncorynchus mykiss 55, 75 ug/l, Pimephales promelus 65 ug/l, Cyprinus carpio 160 ug/l, Lepomis macrochirus 96 ug/l Daphnia magna EC50 (48 h): 20 ug/l Algae EbC50 (72 h): Scenedesmus capricornutum 56 u/l; ErC50 260 ug/l Honeybee LD50 (48 h): >200 ug/bee

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark.

for strobilurins and beta-methoxyacrylates:

Environmental fate:

Despite high biological and particularly fungicidal activity of methoxyacrylate-type antibiotics, their application for plant protection is impeded due to their high sensitivity to light.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air		
	No Data available for all ingredients	No Data available for all ingredients		
Bioaccumulative potentia	1			
Ingredient	Bioaccumulation			
	No Data available for all ingredients			
Mobility in soil				
Ingredient	Mobility			
	No Data available for all ingredients			

SECTION 13 Disposal considerations

Waste treatment methods	
Product / Packaging	Legislation addressing waste disposal requirements may differ by country, state and/ or territory.
disposal	DO NOT allow wash water from cleaning or process equipment to enter drains.

SECTION 14 Transport information

Labels Required



Land transport (UN)

14.1. UN number or ID number	3077			
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains picoxystrobin)			
14.3. Transport hazard class(es)	Class Subsidiary Hazard			
14.4. Packing group	III			
14.5. Environmental hazard	Environmentally hazardous			
14.6. Special precautions for user	Special provisions274; 331; 335; 375Limited quantity5 kg			

Air transport (ICAO-IATA / DGR)

14.1. UN number	3077			
14.2. UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. (contains picoxystrobin)			
14.3. Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subsidiary Hazard ERG Code	9 Not Applicable 9L		
14.4. Packing group	Ш			
14.5. Environmental hazard	Environmentally hazardous			
14.6. Special precautions for user	Special provisions		A97 A158 A179 A197 A215	
	Cargo Only Packing Instructions		956	

Cargo Only Maximum Qty / Pack	400 kg
Passenger and Cargo Packing Instructions	956
Passenger and Cargo Maximum Qty / Pack	400 kg
Passenger and Cargo Limited Quantity Packing Instructions	Y956
Passenger and Cargo Limited Maximum Qty / Pack	30 kg G

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	3077		
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains picoxystrobin)		
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Ha		9 Not Applicable
14.4. Packing group	III		
14.5 Environmental hazard	Marine Pollutant		
14.6. Special precautions for user	EMS Number Special provisions Limited Quantities	F-A , S 274 33 5 kg	S-F 35 966 967 969

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
picoxystrobin	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
picoxystrobin	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

picoxystrobin is found on the following regulatory lists

Not Applicable

Additional Regulatory Information

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	No (picoxystrobin)
Canada - DSL	No (picoxystrobin)
Canada - NDSL	No (picoxystrobin)
China - IECSC	No (picoxystrobin)
Europe - EINEC / ELINCS / NLP	No (picoxystrobin)
Japan - ENCS	No (picoxystrobin)
Korea - KECI	No (picoxystrobin)
New Zealand - NZIoC	Yes
Philippines - PICCS	No (picoxystrobin)
USA - TSCA	No (picoxystrobin)
Taiwan - TCSI	Yes
Mexico - INSQ	No (picoxystrobin)
Vietnam - NCI	Yes

National Inventory	Status	
Russia - FBEPH	No (picoxystrobin)	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

SECTION 16 Other information

Revision Date	22/06/2020
Initial Date	10/12/2011

SDS Version Summary

Version	Date of Update	Sections Updated
3.1	22/06/2020	Disposal considerations - Disposal, Identification of the substance / mixture and of the company / undertaking - Synonyms, Identification of the substance / mixture and of the company / undertaking - Use

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

Definitions and abbreviations

- PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit。
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances
- ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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