

SAFETY DATA SHEET



Galileo™

Version 2.1

Revision Date 10.01.2017

Document no. 130000036186

This SDS adheres to the standards and regulatory requirements of India and may not meet the regulatory requirements in other countries.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : Galileo™

Other names : DPX-YT669 250SC
C11934930

Recommended use of the chemical and restriction on use

Recommended use : Fungicide

Restrictions on use : Do not use product for anything outside of the above specified uses.

Manufacturer, importer, supplier, representative office

Company : E. I. DuPont India Pvt. Ltd.

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2. HAZARDS IDENTIFICATION

Product hazard classification

Acute toxicity (Oral) : Category 5

Acute toxicity (Inhalation) : Category 5

Acute aquatic toxicity : Category 1

Chronic aquatic toxicity : Category 1

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

Label content

Pictogram :



Signal word : Warning

Hazardous warnings : May be harmful if swallowed or if inhaled.
Very toxic to aquatic life with long lasting effects.

Precautionary statements : IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
Call a POISON CENTER/doctor if you feel unwell.
Collect spillage.

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Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Components

Chemical name	CAS-No.	Concentration
Picoxystrobin	117428-22-5	22.5 %
Other Ingredients		77.5 %

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Inhalation : Move to fresh air. Artificial respiration and/or oxygen may be necessary. Call a poison control center or doctor for treatment advice.

Skin contact : Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Ingestion : Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Do not give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed : No information available.

Protection of first-aiders : No information available.

Notes to physician : No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO₂)

Unsuitable extinguishing media : High volume water jet, (contamination risk)

Specific hazards : No information available.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear full protective equipment.

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Specific extinguishing methods : No information available.

Further information : (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment. Wear suitable protective equipment.

Environmental precautions : Prevent material from entering sewers, waterways, or low areas.

Methods and materials for containment and cleaning up : Soak up with sawdust, sand, oil dry or other absorbent material. Dispose of in an approved container.

Additional advice : Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Handling

Technical measures/Precautions : Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

Precautions for safe handling : Keep away from heat and sources of ignition.

Storage

Suitable storage conditions : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No occupational exposure limit values are applicable.

Engineering measures : Ensure adequate ventilation, especially in confined areas.

Biological occupational exposure limits : No information available.

Personal protective equipment

Respiratory protection : Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.

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Hand protection	: Material: Protective gloves
Eye protection	: Wear protective eyewear to prevent contact with this substance.
Skin protection	: Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate.
Hygiene measures	: Avoid contact with skin, eyes and clothing. Do not breathe dust or spray mist. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wash all protective clothing after use.
Protective measures	: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (Physical state, form, colour, etc.)

Physical state	: liquid
Form	: liquid
Colour	: off-white

Odour : not significant

Odour Threshold : No information available.

pH : 6.1 - 8.4

Melting point/freezing point

No information available.

Initial boiling point and boiling range

Boiling point : Not available for this mixture.

Flash point : does not flash

Evaporation rate : No information available.

Flammability (solid, gas) : No information available.

Upper/lower flammability or explosive limits

Upper explosion limit	: No information available.
Lower explosion limit	: No information available.

Vapour pressure : No information available.

Vapour density : No information available.

Density

Density	: 1.11 g/cm ³ (21 °C)
Bulk density	: 8.9 - 9.5 lb/gal

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Solubility(ies)

Water solubility : miscible

Partition coefficient: n-octanol/water

: No information available.

Auto-ignition temperature

Auto-ignition temperature : not auto-flammable

Decomposition temperature

: No information available.

Viscosity

Viscosity, kinematic : No information available.
Viscosity, dynamic : 80 mPa.s (25 °C)

Molecular weight

: No information available.

10. STABILITY AND REACTIVITY

Reactivity

: No information available.

Chemical stability

: Stable at normal temperatures and storage conditions.

Possibility of hazardous reactions

: Hazardous polymerization will not occur.

Conditions to avoid

: Temperature: $\leq -5^{\circ}\text{C}$
To avoid thermal decomposition, do not overheat. Protect from frost.

Materials to avoid

: No materials to be especially mentioned.

Hazardous decomposition products

: No information available.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral

Galileo™ : LD50/Rat: 5,000 mg/kg

Inhalation

Galileo™ : LC50/4 h/Rat(dust/mist): > 5.3 mg/l

Dermal

Galileo™ : LD50/Rat: $> 2,000$ mg/kg

Skin corrosion/irritation

Galileo™ : Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation

Galileo™ : Species: Rabbit
Result: No eye irritation

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Respiratory or skin sensitisation

Galileo™ : Species: Guinea pig
 Result: Did not cause sensitisation on laboratory animals.
 Minimal effects that do not meet the threshold for classification.

Germ cell mutagenicity

Picoxystrobin : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Picoxystrobin : Not classifiable as a human carcinogen.
 Overall weight of evidence indicates that the substance is not carcinogenic.

Reproductive toxicity

Picoxystrobin : Reproductive toxicity: No toxicity to reproduction
 Teratogenicity: Animal testing showed no developmental toxicity.

Specific Target Organ Toxicity

Specific target organ toxicity - single exposure

Picoxystrobin : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure

Picoxystrobin : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Picoxystrobin : No aspiration toxicity classification

Other

Picoxystrobin : Repeated dose toxicity:
 The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
 Oral - feed/Mouse 28 d
 No toxicologically significant effects were found.
 Dermal/Rat 28 d
 No toxicologically significant effects were found.
 Oral/Mouse 90 d
 Reduced body weight gain, Increased liver weight
 Oral - feed/Rat 90 d
 Reduced body weight gain, Increased liver weight, No effect to neurotoxicity.
 Oral/Dog 1 yr
 Reduced body weight gain
 Oral/Mouse 18 Months
 Reduced body weight gain, Increased liver weight, Gastrointestinal effects

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

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Acute and prolonged toxicity to fish Galileo™	:	LC50/96 h/Oncorhynchus mykiss (rainbow trout): 0.24 mg/l
Toxicity to aquatic plants Galileo™	:	ErC50/72 h/Pseudokirchneriella subcapitata (green algae): 1.2 mg/l
Acute toxicity to aquatic invertebrates Galileo™	:	EC50/48 h/Daphnia magna (Water flea): 0.086 mg/l
Chronic toxicity to aquatic Invertebrates Picoxystrobin	:	NOEC/21 d/Daphnia magna (Water flea): 0.008 mg/l
Persistence and degradability Picoxystrobin	:	Result: Not biodegradable
Bioaccumulation No information available.		
Mobility in soil No information available.		
Other adverse effects Galileo™	:	Environmental Hazards: For Terrestrial Uses: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods	:	In accordance with local and national regulations. The product should not be allowed to enter drains, water courses or the soil. Do not reuse empty container.
Contaminated packaging	:	Do not re-use empty containers.

14. TRANSPORT INFORMATION

IMDG

UN number	:	3082
UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Picoxystrobin)
Transport hazard class	:	9
Packing group	:	III
Hazchem Code	:	.3Z
Marine pollutant	:	yes (Picoxystrobin)

IATA

UN number	:	3082
UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Picoxystrobin)
Transport hazard class	:	9
Packing group	:	III

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Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises : Not applicable

15. REGULATORY INFORMATION

Product subject to regulatory requirements under the Insecticides Act, 1968 and Insecticides Rules, 1971

16. OTHER INFORMATION

Sources of key data used to compile the Safety Data Sheet

1. The Factories Act, 1948, The Second Schedule: Permissible levels of certain chemical substances in work environment, as amended through April, 2001
2. Manufacture, Storage and Import of Hazardous Chemical Rules 1989, as amended through January 2000

References

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Before use read DuPont's safety information. Take notice of the directions of use on the label.

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Significant change from previous version is denoted with a double bar.

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