

**SAFETY DATA SHEET  
PYRIDALYL 50 % EC**

SAMPLED

MSDS No. EQ06-1

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

<b>Product label name</b>	Pyridalyl 50%EC GIFAP Code : TC
<b>Use</b>	Insecticide (agricultural use)
<b>Supplier</b>	SUMITOMO CHEMICAL Co., Ltd. 27-1, Shinkawa 2-chome, Chuo-ku, Tokyo 104-8260 Japan
<b>Emergency telephone</b>	+81 355 435 624

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	% (w/v)
Pyridalyl	179101-81-6	50.00
Solvent naphta (petroleum), heavy aromatic	64742-94-5	30.00 max.
Surfactants and others		

**3. HAZARD IDENTIFICATION**

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

**4. FIRST AID MEASURES**
**Symptoms and effects**
**First aid**

<b>General</b>	In cases of doubt, seek medical attention.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, seek medical advice.
<b>Skin</b>	Remove contaminated clothing. Wash immediately with soap and water.
<b>Eye</b>	Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.
<b>Ingestion</b>	Rinse mouth. Never induce vomiting in unconscious or confused persons. Always seek medical attention.
<b>Advice to physician</b>	No specific recommendations.

**5. FIRE-FIGHTING MEASURES**

<b>Extinguishing media</b>	Dry chemical powder, carbon dioxide, foam, sand.
<b>Unsuitable extinguishing media</b>	none known.
<b>Special exposure hazards</b>	none known.
<b>Hazardous decomposition/combustion products</b>	May emit toxic and irritating fumes under fire conditions (hydrochloric acid (HCl), hydrogen cyanide (HCN), carbon monoxide (CO) and nitrous gases (NOx)).
<b>Protective equipment</b>	Wear self contained breathing apparatus. Wear suitable protective clothing and eye/face protection.
<b>Other information</b>	Water used to extinguish a fire should not be allowed to enter the drainage system or water courses.

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**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions</b>	For personal protection see section 8.
<b>Environmental precautions</b>	Do not allow to escape into sewage system or water courses.
<b>Methods for cleaning up</b>	In case of spill (liquid), soak it up immediately with suitable absorbent such as sawdust or granular absorbent clay. Sweep up and dispose as waste following local regulations. Do not wash residues into drains or other waterways.

**7. HANDLING AND STORAGE**

<b>Handling</b>	The usual precautions for handling chemicals should be observed. For personal protection see section 8.
<b>Fire and explosion prevention</b>	No specific recommendations.
<b>Storage requirements</b>	Store in a dry and cool place. Keep container in a well-ventilated place. Keep away from heat.
<b>Other information</b>	Do not mix with water (except for the normal preparation).

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Engineering controls</b>	Provide adequate ventilation.
<b>Exposure limits</b>	No exposure limits have been established for this material.
<b>Personal protection</b>	
<b>Respiratory</b>	Wear respiratory protective equipment when using the product.
<b>Hand</b>	Wear protective gloves of rubber.
<b>Eye</b>	Wear safety goggles or face shield.
<b>Skin and body</b>	Wear suitable protective clothing.
<b>Other information</b>	Launder clothes before reuse.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	liquid
<b>Colour</b>	yellow, clear
<b>Odour</b>	aromatic
<b>Boiling point/range</b>	178–209 °C
<b>Flash point</b>	Note: The data refer s to naphtha solvent (petroleum). > 62 °C
<b>Autoignition temperature</b>	Note: The data refer s to naphtha solvent (petroleum). > 450 °C
<b>Explosion limits in air</b>	Note: The data refer s to naphtha solvent (petroleum). 0.6–7.0 vol.%
<b>Vapour pressure</b>	Note: The data refer s to naphtha solvent (petroleum). 0.1 kPa (20 °C)
<b>Density</b>	1.12 g/ml (20 °C)
<b>Solubility in water</b>	Miscible
<b>pH value</b>	5.0 (1% aqueous suspension, 25 °C)
<b>Partition coefficient n-octanol/water</b>	log Pow = 8.1 (20 °C)
<b>Relative vapour density (air = 1)</b>	Note: The value mentioned relates to the active ingredient pyridalyl. 1.00
<b>Viscosity</b>	Note: The data refer s to naphtha solvent (petroleum). 1.26 mm <sup>2</sup> /s (25 °C) Note: The data refer s to naphtha solvent (petroleum).

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**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under recommended storage and handling conditions (see section 7).
<b>Conditions to avoid</b>	Avoid high temperature.
<b>Materials to avoid</b>	none known.
<b>Hazardous decomposition products</b>	No hazardous reactions when stored and handled according to prescribed instructions.

**11. TOXICOLOGICAL INFORMATION**

<b>Acute toxicity</b>	
<b>Oral LD50</b>	rat: >2000 mg/kg
<b>Dermal LD50</b>	rat: >2000 mg/kg
<b>Inhalation LC50</b>	rat (4 hours): >5250 mg/m <sup>3</sup> (snout-only exposure)
<b>Irritation</b>	
<b>Skin</b>	not irritant
<b>Eye</b>	irritant
<b>Sensitization</b>	not sensitizing (Buehler test)

**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	
<b>Fish</b>	Acute toxicity, 96h-LC50 ( <i>Oncorhynchus mykiss</i> ): 0.50 mg/l (intermittent-flow) Acute toxicity, 96h-LC50 ( <i>Cyprinus carpio</i> ): >10 mg/l (static) ; Acute toxicity, 96h-LC50 ( <i>Lepomis macrochirus</i> ): >24 mg/l (intermittent-flow) ; (NOEC = 24 mg/l)
<b>Daphnia</b>	Acute toxicity, 48h-EC50 ( <i>Daphnia magna</i> ): 0.0038 mg/l
<b>Algae</b>	Acute toxicity, 96h- EC <sub>50</sub> and EC <sub>10</sub> , ( <i>Pseudokirchneriella subcapitata</i> ): > 0.14 mg/l 96h- EC <sub>50</sub> and EC <sub>10</sub> , ( <i>Navicula pelliculosa</i> ): > 0.18 mg/l
<b>Aquatic plant</b>	Acute toxicity, 7d- EC <sub>50</sub> and EC <sub>10</sub> , ( <i>Lemna gibba</i> ): > 0.17 mg/l
<b>Bees</b>	Acute contact toxicity, 48h-LD50 ( <i>Apis mellifera</i> ): > 25 µg/bee (NOEL = 25 µg/bee)
<b>Birds</b>	Acute toxicity, single dose acute oral LD50, Bobwhite quail: > 2250 mg/kg
<b>Fate</b>	
<b>Degradation Abiotic</b>	stable
<b>Degradation Biotic</b>	not determined

Note: All the data above refer s to pyridalyl technical.

**13. DISPOSAL CONSIDERATIONS**

<b>Product</b>	According to local regulations. For further advice contact manufacturer.
<b>Contaminated packaging</b>	According to local regulations.

**14. TRANSPORT INFORMATION**

Land transport: ADR/RID

<b>ADR/RID class</b>	9	<b>Packing group</b>	III
<b>Label(s)</b>	9	<b>Substance identification no.</b>	3082
<b>Hazard Identification no.</b>	90	<b>UN number</b>	3082
<b>Trem-Card</b>	CEFIC TEC(R)-61GT6-III		
<b>Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		

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**14. TRANSPORT INFORMATION (CONTINUATION)***Sea transport: IMO/IMDG code*

<b>Class</b>	9	<b>UN number</b>	3082
<b>Marine pollutant</b>	PP	<b>Packing group</b>	III
<b>EMS</b>	F-A, S-A		
<b>Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		

*Air transport: ICAO-TI/ATA-DGR*

<b>Class</b>	9	<b>UN number</b>	3082
		<b>Packing group</b>	III
<b>Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		

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**15. REGULATORY INFORMATION**

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Each government or state promulgate regulations. The user should consult government, state or local authorities.

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**16. OTHER INFORMATION**

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This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

<b>Date of issue</b>	15 April 2004
<b>MSDS number</b>	EQ06-1

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