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MATERIAL SAFETY DATA SHEET

MSDS No.520-42 (M06-17)

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

1.1 Identification of the preparation

Product name: **Tolfenpyrad 15EC (Synonym: OMI 150EC)**

1.2 Use of the preparation

Pesticide for agriculture

1.3 Company/undertaking identification

Manufacturer

Nihon Nohyaku Co., Ltd.

19-8, Kyobashi 1-Chome, Chuo-Ku, Tokyo 104-8386, JAPAN
(ENVIRONMENT SAFETY DEPT. / Phone: 81-3-6361-1426
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Emergency telephone number

OVERSEAS DIVISION, Nihon Nohyaku Co., Ltd.

19-8, Kyobashi 1-Chome, Chuo-Ku, Tokyo 104-8386, JAPAN
Phone: 81-3-6361-1425 Facsimile: 81-3-6361-1456

UK Connection: Nichino Europe Co., Ltd.

5 Pioneer Court, Vision Park, Histon, Cambridge CB24 9PT, UK
Phone: 44-1223-200212 Facsimile: 44-1223-233119

USA Connection: Nichino America, Inc.

4550 New Linden Hill Road, Suite 501, Wilmington,
Delaware 19808, USA
Phone: 1-302-636-9001 Facsimile: 1-302-636-9122**2. COMPOSITION / INFORMATION ON INGREDIENTS**

Substance / Mixture: Mixture

Ingredients and composition

Active ingredient

4-chloro-3-ethyl-1-methyl-N-[4-(*p*-tolylloxy) benzyl] pyrazole-5-carboxamide (IUPAC)
(Common name: Tolfenpyrad)

Component

Ingredient	%	CAS No.
Tolfenpyrad	15.0	129558-76-5
<Others>		
Alkyl-naphthalene	53.9	64742-94-5
N-Methyl-2-pyrrolidone	13.0	872-50-4
Surfactant, oil etc.	18.1	—

3. HAZARD IDENTIFICATION

Classification (UN classification): Class 6.1, Toxic substances

Physical and chemical hazards: Combustible liquid

Adverse human health effects

Ingestion: Toxic by ingestion.

Inhalation:	Toxic by inhalation.
Eye contact:	Contact with this product may cause eye irritation.
Skin contact:	Contact with this product may cause skin irritation.
Environmental effect:	Very toxic to aquatic organisms.

4. FIRST-AID MEASURES

Eye contact:	Flush eyes with plenty of water for at least 15 minutes and get medical attention.
Skin contact:	Remove contaminated clothing. Wash skin with plenty of water and soap. If irritation persists, get medical attention.
Ingestion:	If swallowed, rinse mouth with water and give one or two glasses of water to drink. Keep patient at rest and get medical attention immediately. Do not induce vomiting. Do not give an unconscious person anything to drink.
Inhalation:	Remove patient to fresh air, keep warm and at rest. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Fire-fighting procedure:	Firefighters should wear proper protective equipment and self-breathing apparatus. Avoid inhalation gas and contact with skin and eyes. Avoid extinguishing media such as water and foam, to flow into pond, river and lake due to danger of acute toxicity to aquatic organisms.
Hazardous combustion products:	Combustion or thermal decomposition may evolve toxic vapors. (CO, NO _x , etc.)
Extinguishing media:	Foam, dry chemical powder, carbon dioxide or water (spray).

6. ACCIDENTAL RELEASE MEASURES

Evacuate nonessential personnel. Wear proper equipment. Adsorb spillage onto sand, soil or any suitable adsorbent material. Transfer to a container for disposal. Wash the spillage area with detergent and water. Washing must be prevented from entering surface water or drains due to danger of acute toxicity to aquatic organisms.

7. HANDLING AND STORAGE

Handling:	Avoid contact with skin and eyes. Do not breathe mist or vapor. Use with adequate ventilation. Wash face and hands with soap and water after handling the material.
Storage:	Avoid direct sunlight. Keep locked up and out of reach of children in a cool, dark and well-ventilated place. Keep in original containers tightly closed. Keep away from food, drink and animal feeding stuffs.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Exposure limit values

Tolfenpyrad: Not established (JAPAN SOCIETY FOR OCCUPATIONAL HEALTH, ACGIH)

8.2 Exposure control

Use with local exhaust ventilation. Make available in the work area emergency shower and eyewash.

Personal protective equipment

Respiration protection: Avoid breathing mist or vapor. Use approved respiratory protection equipment when airborne exposure limits are exceeded.

Eye protection: Wear chemical safety goggles.

Hand, skin and body protection: Suitable groves and protective clothes. Launder contaminated clothes and clean protective equipment. Wash hand and skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow liquid

Specific gravity: 0.98-1.04

pH: 4.5-7.5 (1% aqueous suspension)

Flash point: 93°C

10. STABILITY AND REACTIVITY

Chemical stability: This product is stable under normal storage conditions.

Incompatibility with other materials: Not known

Hazardous polymerization: Not known

Hazardous decomposition products: Combustion or thermal decomposition may evolve toxic vapors (CO, NOx etc.).

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral:	Rat LD ₅₀ (mg/kg)	male 102, female 83
Dermal:	Rat LD ₅₀ (mg/kg)	male, female >2000
Inhalation:	Rat LC ₅₀ (mg/L/4h)	male, female 0.542
Eye irritation:	Rabbit	Moderate irritation
Skin irritation:	Rabbit	Moderate irritation
Sensitization:	Guinea pig	Negative

12. ECOLOGICAL INFORMATION

Aquatic organisms toxicity

Carp	LC ₅₀ (96h)	0.0449 mg/L
Daphnia	EC ₅₀ (48h)	0.00785 mg/L

13. DISPOSAL CONSIDERATIONS

Excess product and rinsate should be disposal of according to label instructions and/or local regulations. Dispose used container according to the local regulations. Repealing liquid containing tolfenpyrad should be avoided to flow into river, pond and lake due to danger of acute toxicity to aquatic organisms.

14. TRANSPORT INFORMATION

Confirm that the material does not leak and treat carefully not to break the packing. Follow the precaution indicated in the handling and storage section.

UN Classification: Class 6.1, UN No. 2902 (PESTICIDE, LIQUID, TOXIC, N.O.S. (contains tolfenpyrad))

Packing group III

IMDG Code: Marine pollutant

15. REGULATORY INFORMATION

Users should ensure that they comply with any relevant local, state or national legislation.

16. OTHER INFORMATION

The information herein is given in good faith, but not warranty. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of product. It is not applicable to unusual or non-standard uses of product, nor where instructions or recommendations are not followed.
