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SAFETY DATA SHEET

SDS No. 520-50(M15-51)

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

1.1 Identification of the substance/mixture

Product name: **Tolfenpyrad 15EC****(Synonym: Hachi Hachi EC, Nichino Hachi Hachi EC, Omi-88)**

1.2 Use of the substance/mixture

Insecticide 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

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Delaware 19808, USA

Phone: 1-302-636-9001 Facsimile: 1-302-636-9122

2. HAZARD IDENTIFICATION

GHS Classification

Health hazards

Acute toxicity (oral)	Category 3
Acute toxicity (inhalation: dust, mist)	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (Repeated exposure)	Category 1(liver, pancreas, genital organ, bone marrow, spleen, adrenal gland, kidney, blood, eyes, respiratory system)
	Category 2 (heart)

Environmental hazards

Short-term (acute) aquatic hazard	Category 1
Long-term (chronic) aquatic hazard	Category 1

Other hazards described above are "Not classified", "No classification" or "Classification not possible".

GHS label elements

Pictogram



Signal word

Danger

Hazard statement

Toxic if swallowed

Toxic if inhaled

Causes skin irritation

Causes serious eye irritation

Suspected of causing cancer

Suspected of damaging fertility or the unborn child

Causes damage to organs (liver, pancreas, genital organ, bone marrow, spleen, adrenal gland, kidney, blood, eyes, respiratory system) through prolonged or repeated exposure

May cause damage to organs (heart) through prolonged or repeated exposure

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

Precautionary statement

[Prevention]

- Do not eat, drink or smoke when using this product.
- Do not breathe gas/mist/vapours/spray.
- Use only outdoors or in a well-ventilated area.
- 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/hearing protection.
- Wash hands thoroughly after handling.
- Avoid release to the environment.

[Response]

- IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.
- IF ON SKIN: Wash with plenty of water.
- If skin irritation occurs: Get medical advice/attention.
- Take off contaminated clothing and wash it before reuse.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritating persists: Get medical advice/attention.
- If exposed or concerned: Get medical advice/attention.
- Get medical advice/attention if you feel unwell.
- Collect spillage.

[Storage]

- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.

[Disposal]

- Dispose of contents or container in accordance with local regulations.

Other hazards: Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture
 Ingredient and composition
 Active ingredient: 4-chloro-3-ethyl-1-methyl-*N*-[4-(*p*-tolxyloxy) benzyl]-pyrazole-5-carboxamide (IUPAC)
 (Common name: Tolfenpyrad)

Component

Ingredient	%(w/w)	CAS No.
Tolfenpyrad	15.0	129558-76-5
<i>N</i> -Methyl-2-pyrrolidone	13.0	872-50-4
Naphthalene	5.4	91-20-3
Surfactant, oil etc	66.6	-

4. FIRST-AID MEASURES

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Skin contact: Remove contaminated clothing. Wash skin with plenty of water and soap. If irritation persists, get medical attention. Contaminated clothing should be washed before reuse.

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.

Unusual fire or explosion hazard: None

Hazardous combustion products: Carbon dioxide, carbon monoxide and nitrogen oxides etc.

Extinguishing media: Water spray, Foam, Dry chemical powder, Carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Evacuate non-essential personnel. Wear proper protective equipment. Carefully 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:	Use with adequate ventilation. Avoid contact with skin and eyes. Do not breathe mist or vapour. Wash face and hands thoroughly with soap and water after handling the material.
Storage:	Avoid direct sunlight. Store in a cool, dry and well-ventilated place. Keep in original containers, tightly closed. Keep away from food, drink and animal feeding stuffs and out of reach of children. Keep locked up.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Exposure limits values

INGREDIENT	Exposure limits	
	ACGIH#1	JSOH#2
Tolfenpyrad	–#3	-

#1: American Conference of Governmental Industrial Hygienist

#2: Japan Society for Occupational Health

#3 Not established

8.2 Exposure control

Engineering controls: Use with local exhaust ventilation. Make available in the work area emergency shower and eye wash.

Personal protective equipment:

Respiratory protection: Wear approved respiratory protection equipment.

Eye protection: Wear chemical safety goggles.

Hand, skin and body protection:

Wear suitable gloves and protective clothes. Launder contaminated cloths and clean protective equipment. Wash hand and skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow liquid
Odour:	No data available
pH:	4.5-7.5 (1% aqueous suspension)
Melting point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	112°C
Evaporation rate:	No data available
Flammability (solid, gas):	Not applicable
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	0.98-1.04
Solubility:	No data available
Partition coefficient:	Not applicable
Auto ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available

Explosive properties: No data available
 Oxidizing properties: No data available

10. STABILITY AND REACTIVITY

Chemical stability: This product is stable under normal storage conditions.
 Incompatibility with other materials: Not known
 Hazardous decomposition products: Combustion or thermal decomposition will evolve toxic and irritant vapours (CO, NOx etc.).
 Hazardous polymerization: Not known

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral:	Rat LD ₅₀ (mg/kg)	male 102, female 83
Dermal:	Rat LD ₅₀ (mg/kg)	male, female >2000 (No animals died or showed any clinical signs at a dose level of 2000 mg/kg)
Inhalation:	Rat LC ₅₀ (mg/L/4hr)	male, female 0.542

Skin corrosion/irritation:

Rabbit Moderately irritant

Serious eye damage/irritation:

Rabbit Moderately irritant

Respiratory sensitization:

No data available

Skin sensitization:

Guinea pig Negative

Germ cell mutagenicity:

No data available

Carcinogenicity:

As this product contains naphthalene classified in category 2 more than cut-off value (0.1%), it was classified in Category 2.

Reproductive toxicity:

As this product contains *N*-methyl-2-pyrrolidone classified in category 2 more than cut-off value (0.1%), it was classified in Category 2.

Specific target organ toxicity (Single exposure):

No data available

Specific target organ toxicity (Repeated exposure):

This product contains tolfenpyrad classified in Category 1 (liver, pancreas, genital organ) and Category 2 (heart), *N*-methyl-2-pyrrolidone classified in Category 1 (bone marrow, spleen, liver, respiratory system, adrenal gland, kidney) and naphthalene classified in Category 1 (blood, eyes, respiratory system). So it was classified in Category 1 (liver, pancreas, genital organ, bone marrow, spleen, adrenal gland, kidney, blood, eyes, respiratory system) and Category 2 (heart).

Aspiration hazard: No data available

12. ECOLOGICAL INFORMATION

Aquatic organism toxicity (Short-term): Category 1

Carp:	LC ₅₀ (96hr)	0.0449 mg/L
Daphnia ^{#4} :	EC ₅₀ (48hr)	0.00785 mg/L

^{#4}*Daphnia magna*

Algae ^{#5} :	EbC ₅₀ (0-72h)	1.36 mg/L
	ErC ₅₀ (24-48h)	1.98 mg/L
	ErC ₅₀ (24-72h)	2.18 mg/L

^{#5}*Pseudokirchneriella subcapitata*

Aquatic organism toxicity (Long-term): Category 1

This classification is estimated from content of ingredients classified in Chronic Category 1.

13. DISPOSAL CONSIDERATIONS

Excess pesticide and rinsate should be disposed of according to label instructions and/or local regulations. Do not dump into sewers, on the ground or into any body of water. Dispose used container according to the local regulations. Repealing liquid containing tolfenpyrad should be avoided flowing into river, pond and lake.

14. TRANSPORT INFORMATION

Follow the precaution indicated in the HANDLING AND STORAGE section. Confirm that the material does not leak and treat carefully not to break the packing. Follow all regulations in your country.

UN Classification: Class 6.1

UN Number 2902 (Pesticide, Liquid, Toxic, N.O.S. (tolfenpyrad mixture))

Packaging 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

References

1. Globally Harmonized System of Classification and Labelling of Chemicals (GHS), seventh revised edition. United Nations, 2017

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.
