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## MATERIAL SAFETY DATA SHEET

MSDS No.535-41 (M05-10)

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

#### 1.1 Identification of the preparation

Product name: **MONCUT 40SC(EU) (Synonym: FLUTOLANIL 40SC(EU))**

#### 1.2 Use of the preparation

Fungicide for agriculture

#### 1.3 Company/undertaking identification

Manufacturer

Nihon Nohyaku Co., Ltd.,

Eitaro Bldg., 2-5, Nihonbashi 1-Chome, Chuo-KU, Tokyo, JAPAN

(ENVIRONMENTAL SAFETY DEPT / Phone: 81-3-3274-1887

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Nichino Europe Co., Ltd.

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Phone: +44-1223-200212

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Emergency telephone number

OVERSEAS DIVISION, Nihon Nohyaku Co., Ltd.,

Eitaro Bldg., 2-5, Nihonbashi 1-Chome, Chuo-KU, Tokyo, JAPAN

Phone: 81-3-3274-3420

Facsimile: 81-3-3281-2443

### 2. HAZARD IDENTIFICATION

Classification\*: N (Dangerous for environment)

Physical and chemical hazards: Not applicable

Adverse human health effects\*: Risk of mild skin irritation, but temporary injury. Ingestion of large amount of this product may cause hypoactivity.

Environmental effect\*: R50/53 Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Ingredient and composition

Active ingredient:  $\alpha, \alpha, \alpha$ -trifluoro-3'-isopropoxy-o-toluanilide (IUPAC name)

Common name: Flutolanil 40.0%

Hazardous component

Chemical name	CAS No.	Symbol	R-phrased	Concentration (%)
Flutolanil	66332-96-5	N	*R50/53	40.0

### 4. FIRST-AID MEASURES

Eye contact: Flush eyes with plenty of water at least 15 minutes. If irritation persists, get medical attention.

Skin contact: Remove contaminated clothing. Wash 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. Do not induce vomiting.
Inhalation:	Remove individual to fresh air. Get medical attention if ill effect occurs.

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## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water spray, Foam, Dry chemical powder, Carbon dioxide
Specific hazards during fire fighting:	Not known
Special protective equipment for fire-fighters:	Firefighters should wear proper protective equipment.
Further information:	Avoid extinguishing media such as water, foam, and dry chemical flow into pond, river and lake.

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## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear suitable protective clothing, gloves and eye/face protection.
Environmental precaution:	Evacuate non-essential personnel. Prevent spills from entering sewers, watercourse or low areas. Washings should not be poured into drains or waterway.
Methods for cleaning up:	Adsorb spillage onto sand, soil or any suitable adsorbent material. Transfer to a container for disposal. Wash the spillage area with water.

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## 7. HANDLING AND STORAGE

### 7.1 Handling

Advice on safe handling:	Use with adequate ventilation. Avoid contact with skin and eyes. Do not breathe mist. Wash face and hands thoroughly with soap and water after handling. When using do not eat, drink or smoke.
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### 7.2 Storage

Requirements for storage areas and containers:	Avoid direct sunlight. Store in a cool, dry and well-ventilated place. Keep in original containers, tightly closed.
Advice on common storage:	Keep away from food, drink and animal feeding stuffs and out of reach of children. Keep locked up.

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## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### 8.1 Exposure limits values

Flutolanil:	10mg/m <sup>3</sup> (Japan Society for Occupational Health) 2mg/m <sup>3</sup> (Nihon Nohyaku exposure limit)
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### 8.2 Exposure control

Engineering controls:	Use with adequate ventilation in the working area. Make available in the work area emergency shower and eyewash.
Personal protective equipment	
Respiratory protection:	Wear approved respiratory protection equipment.
Eye protection:	Wear chemical safety goggles.

Skin protection: Wear suitable protective clothing and gloves to prevent skin contact. Wash contaminated skin promptly.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Whitish suspension  
Specific gravity: 1.14±0.02/20°C  
pH: 5.0-8.0/20°C (1%water suspension)

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## 10. STABILITY AND REACTIVITY

Flash point: Not applicable  
Chemical stability: This product is stable for at least 3 years when stored in the unopened sales container under normal warehouse conditions.  
Incompatibility with other materials: Not known  
Hazardous decomposition products: Not known  
Hazardous polymerization: Not known

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## 11. TOXICOLOGICAL INFORMATION

Acute toxicity  
Oral: Rat LD<sub>50</sub>(mg/kg) male, female >5,000  
Dermal: Rat LD<sub>50</sub>(mg/kg) male, female >2,000  
Inhalation: No data available  
Eye contact: Rabbit Not irritating  
Skin contact: Rabbit Not irritating  
Sensitization: Guinea pig Negative

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## 12. ECOLOGICAL INFORMATION

Aquatic organism toxicity  
Bluegill sunfish LC<sub>50</sub> (48h) >5.4mg/L (Flutolanil technical)  
Daphnia EC<sub>50</sub> (48h) >6.8mg/L (Flutolanil technical)  
Algae\* ErC<sub>50</sub> (72h) 30mg/L

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## 13. DISPOSAL CONSIDERATIONS

Product: Excess this product should be disposed of according to label instruction and / or local regulation. Do not dump into sewers, on the ground or into any body of water. Repealing liquid containing flutolanil should be avoided to flow into river, pond and lake.  
Contaminated packaging: Dispose used container according to the local regulation.

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## 14. TRANSPORT INFORMATION

Land shipment ADR/RID  
ADR/RID Class: 9  
UN Number: 3082  
Declaration for land shipment: Environmentally hazardous substance, liquid, n.o.s. (contains Flutolanil)

Sea shipment IMDG

IMDG Class: 9

UN Number: 3082

Group of packaging: III

Declaration for land shipment:

Environmentally hazardous substance, liquid, n.o.s. (contains  
Flutolanil)

Marine pollutant\*

Shipment by air ICAO and IATA

Class: 9

UN Number: 3082

Group of packaging: III

Declaration for land shipment:

Environmentally hazardous substance, liquid, n.o.s. (contains  
Flutolanil)

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## 15. REGULATORY INFORMATION

This product is classified as follows and labeled accordingly.

Symbol\*: N (dangerous for environment)

Risk phrase\*: R50/53

Safety phrase: S2-S13-S56

Please refer to any other EU, national and local measures.

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## 16. OTHER INFORMATION

Text of Risk-phrases mentioned in Section 2, 3 and 15

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S2: Keep out of reach of children.

S13: Keep away from food, drink and animal feeding stuffs.

S56: Dispose of this material and its container to hazardous or special waste collection point.

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.

\* Revised or additional data or information

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