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## SAFETY DATA SHEET

SDS No. 504-72 (M16-15)

NEU-85021-1

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### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

#### 1.1. Product identifier

Product name: **NNI-850 5SC (Synonym: FENPYROXIMATE 5SC, Danitron, Danitron 5 SC, Dinamite, Flash, Kendo SC, Kiron, Ortus, Ortus 5 SC, Ortus 05 SC, Samba K, Sequel)**

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Acaricide for agriculture

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer

Nichino Europe Co., Ltd.

5 Pioneer Court, Vision Park, Histon, Cambridge CB24 9PT, UK

Phone: 44-1223-855720 Facsimile: 44-1223-233119

International Contact

Nihon Nohyaku Co., Ltd.

19-8, Kyobashi 1-Chome, Chuo-Ku, Tokyo 104-8386, JAPAN

(ENVIRONMENT SAFETY DEPT. / Phone: 81-3-6361-1426

Facsimile: 81-3-6361-1451 e-mail: [kankyouanzen@nichino.co.jp](mailto:kankyouanzen@nichino.co.jp))

#### 1.4. Emergency telephone number

**Carechem 24 International Emergency Telephone number: \***

For Europe, Middle East and Africa

**Phone: +44 1273 289 451** (languages: English, Dutch, French, German, Italian, Spanish)

Further numbers and local numbers see Chapter 16

OVERSEAS DIVISION, Nihon Nohyaku Co., Ltd.

19-8, Kyobashi 1-Chome, Chuo-Ku, Tokyo 104-8386, JAPAN

Phone: 81-3-6361-1420 Facsimile: 81-3-6361-1456

(Only during office hours)

Nichino Europe Co., Ltd.

5 Pioneer Court, Vision Park, Histon, Cambridge CB24 9PT, UK

Phone: 44-1223-855720 Facsimile: 44-1223-233119

(Only during office hours)

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### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (inhalation); H332

Eye Irrit. 2; H319

Skin Sens. 1; H317

Aquatic Acute 1; H400

Aquatic Chronic 1; H410

Additional information: See SECTION 16 for full text of Hazard- and EU Hazard-statements.

## 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard Pictogram:



Signal Word:

Warning

Hazard Statement:

H332	Harmful if inhaled *
H319	Causes serious eye irritation:
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statement (Prevention):

P271	Use only outdoors or in a well ventilated area.*
P280	Wear protective gloves/protecting clothing/eye protection/face protection.*
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P364	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.

Precautionary Statement (Response):

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing. *
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P312	Call a POISON CENTER/doctor if you feel unwell. *
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

Precautionary Statement (Storage):

Precautionary Statement (Disposal):

P501	Dispose of contents/container in accordance with local regulation.
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Supplemental Hazard Information (EU):

EUH401	To avoid risks to human health and the environment, comply with the instructions for use.
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## 2.3. Other hazards

No data available.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable. This product is regulated as a mixture.

### 3.2. Mixtures

Active ingredient: *tert*-butyl (*E*)- $\alpha$ -(1,3-dimethyl-5-phenoxy-pyrazol-4-ylmethyleneamino-oxy)-*p*-toluate  
(Common name: Fenpyroximate)  
51.2 g/L

Hazardous ingredients:

Chemical name	CAS No.	CLP index No.	Concentration (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Fenpyroximate	134098-61-6	607-713-00-1	5.0	Acute Tox. 3; H301, Acute Tox. 2; H330, Skin Sens. 1B; H317, Aquatic Acute 1; H400, M factor = 100 Aquatic Chronic 1; H410, M factor = 1000
Poly(oxy-1,2-ethanediyl), .alpha.-[tris(1-phenylethyl) phenyl]-.omega.-hydroxy-	99734-09-5	–	< 1.5	Aquatic Chronic 3; H412
Alcohols, C11-15-secondary, ethoxylated	68131-40-8	–	=<1.0	Acute Tox. 4; H302, Acute Tox. 4; H332, Skin Irrit. 2; H315, Eye Dam. 1; H318
1,2-Benzisothiazolin-3-one	2634-33-5	613-088-00-6	<0.01	Acute Tox. 4; H302, Skin Irrit. 2; H315, Eye Dam. 1; H318, Skin Sens. 1; H317, Aquatic Acute 1; H400

CLP index No.: Index No. in part 3 of Annex VI of Regulation (EC) No. 1272/2008

See SECTION 16 for full text of Hazard- and EU Hazard-statements.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

Eye contact: Flush eyes with plenty of water for at least 15 minutes and get medical attention.

Skin contact: Wash skin with plenty of water and soap. Remove contaminated clothing and launder before use. If irritation persists, get medical attention. Sensitized persons should avoid further contact and reuse of clothing.

Ingestion: If swallowed, rinse mouth with water and give one or two glasses of water to drink. Keep patient at rest and obtain medical aid. Do not induce vomiting.

Inhalation: Remove patient to fresh air, keep warm and at rest. Obtain medical aid as a precaution.

#### 4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the SECTION 2 and SECTION 11.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance.

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### SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

Suitable extinguishing media: Water spray, Foam, Dry chemical powder, Carbon dioxide

Unsuitable extinguishing media: No data available

#### 5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Combustion or thermal decomposition may evolve toxic vapors (CO, CO<sub>2</sub>, NO<sub>x</sub>, etc.).

#### 5.3. Advice for firefighters

Special protective equipment for firefighters:

Firefighters should wear proper protective equipment.

Further information:

Avoid extinguishing media such as water, foam, and dry chemicals flow into pond, river and lake.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Evacuate non-essential personnel. Wear suitable protective clothing, gloves and eye/face protection.

#### 6.2. Environmental precautions

Environmental precaution: Prevent spills from entering sewers, watercourse or low areas. Washings should not be poured into drains or waterway.

#### 6.3. Methods and material for containment and cleaning up

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.

#### 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in the SECTION 8 and SECTION 13.

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### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Advice on safe 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. Do not eat, drink or smoke when using.

## 7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Not known.

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.

## 7.3. Specific end use(s)

Section 1 informs about identified end-uses.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Exposure limits values:

Ingredient	Exposure limits		
	ACGIH <sup>#1</sup>	JSOH <sup>#2</sup>	NICHINO <sup>#3</sup>
Fenpyroximate	–	–	0.07 mg/m <sup>3</sup>

#1: American Conference of Governmental Industrial Hygienists

#2: Japan Society for Occupational Health

#3: Nihon Nohyaku exposure limit

–: Not established

### 8.2 Exposure controls

Engineering controls:

If practical, use with local exhaust ventilation or adequate ventilation systems. Make available in the work area emergency shower and eyewash.

Personal protective equipment:

Respiratory protection:

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

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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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance:

Opaque, white, free flowing medium viscosity, homogeneous liquid.

Odour:

No discernible odour

Odour threshold:

No data available

pH:

8.0 (1.0% dilution with deionized water, 21.5°C)

Melting point:

No data available

Initial boiling point and boiling range:

No data available

Flash point

No data available

Evaporation rate:

No data available

Flammability (solid, gas):

No data available

Upper/lower flammability or explosive limits:

	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density	1.030 g/mL (20°C)
Solubility (ies):	No data available
Partition coefficient (n-octanol/water):	No data available
Auto ignition temperature	No data available
Decomposition temperature:	No data available
Viscosity:	64~358 mPa.s at 20°C
Explosive properties:	No data available
Oxidizing properties:	No data available

## 9.2. Other information

Not applicable.

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## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

### 10.2. Chemical stability

This product is stable for at least three years under normal storage and handling conditions.

### 10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

### 10.4. Conditions to avoid

Excessive heat.

### 10.5. Incompatible materials

Not known.

### 10.6. Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.  
See also SECTION 5.2.

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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute toxicity:

Oral;	No data available for this product.
LD <sub>50</sub> (mg/kg)	ATEmix <sup>#4</sup> >3946 (calculation method) (0.53 percent of the mixture consists of components of unknown acute oral toxicity) <sup>#4</sup> : Acute toxicity estimate of the mixture
Dermal;	No data available for this product.
LD <sub>50</sub> (mg/kg)	ATEmix >9380 (calculation method) (0.98 percent of the mixture consists of components of unknown acute dermal toxicity)
Inhalation;	No data available for this product.

LC50(mg/L/4h)	ATEmix >3.9 (calculation method) (3.4 percent of the mixture consists of components of unknown acute inhalation toxicity)
Rat LC50(mg/L/4hr)male, female	1.3~2.7(OECD Guideline 403) * for a similar composition product. *
Skin corrosion/ irritation:	No data available for this product.
Serious eye damage/irritation: <i>In vitro</i> eye irritation test in isolated chicken eyes	Non irritant UH GHS classification: no category (OECD Guideline 438) Based on the information about ingredients, this product is classified as follows: * Eye Irrit. 2; H319 (calculation method) * Hazardous ingredients: Alcohols, C11-15-secondary, ethoxylated: Eye damage. 1; H318 *
Respiratory or skin sensitisation: Respiratory sensitisation: Skin sensitisation:	No data available for this product. No data available for this product. Based on the information about ingredients, this product is classified as follows: Skin Sens. 1; H317 (calculation method) Hazardous ingredients: Fenpyroximate: Skin Sens. 1B; H317 1,2-Benzisothiazolin-3-one: Skin Sens. 1; H317
Germ cell mutagenicity:	No data available for this product.
Carcinogenicity:	No data available for this product.
Reproductive toxicity:	No data available for this product.
Specific target organ toxicity (Single exposure):	No data available for this product.
Specific target organ toxicity (Repeated exposure):	No data available for this product.
Aspiration hazard:	No data available for this product.

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## SECTION12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

No data available for this product.

Based on the information about ingredients, this product is classified as follows:

Short-term aquatic hazard:	Category 1 (calculation method) (0.53 percent of the mixture consists of components of unknown hazards to aquatic environment.)
Long-term aquatic hazard:	Category 1 (calculation method) (1.5 percent of the mixture consists of components of unknown hazards to aquatic environment.)

Data on fenpyroximate:

Rainbow trout	LC50 (96h)	0.00105 mg/L (OECD Guideline 203)
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Fathead minnow	NOEC (34 days)	0.0001 mg/L (OECD Guideline 210)
Daphnia <sup>#5</sup>	EC <sub>50</sub> (48h)	0.00328 mg/L (OECD Guideline 202)
Daphnia <sup>#5</sup>	NOEC (21 days)	0.00068 mg/L (OECD Guideline 202)
		<sup>#5</sup> : <i>Daphnia magna</i>
Algae <sup>#6</sup>	ErC <sub>50</sub> (72h)	0.00554 mg/L (OECD Guideline 201)
	NOECr (72h)	0.001 mg/L (OECD Guideline 201)
		<sup>#6</sup> : <i>Scenedesmus subspicatus</i>

## 12.2. Persistence and degradability

No data available for this product.

Data on fenpyroximate:

Hydrolysis:	stable (25°C, pH4, 7, 9)
Photolysis:	half life 2.8~3.1 h in distilled water (25°C, 85.8 W/m <sup>2</sup> , 290~800 nm)
Degradation in soil:	DT50 = 30~159 days (Laboratory study)
Degradation in soil:	DT50 = 9.7~16.7 days (German field study)

## 12.3. Bioaccumulative potential

No data available for this product.

Data on fenpyroximate:

Bioconcentration Factor: BCF = 1601 (OECD Guideline 305)
Partition coefficient (n-octanol/water): log Po/w = 5.01

## 12.4. Mobility in soil

No data available for this product.

Data on fenpyroximate:

Koc = 40000~79500

## 12.5. Results of PBT and vPvB assessment

No data available for this product.

## 12.6. Other adverse effects

No adverse effects are expected.

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## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Product: Product 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. Repealing liquid containing this product should be avoided flowing into river, pond and lake.

Contaminated packaging: Dispose used container according to the local regulations.

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## SECTION 14: TRANSPORT INFORMATION

### ADR

14.1. UN number: 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fenpyroximate mixture)\*

14.3. Transport hazard class(es): 9



**14.4. Packing group:** III

**14.5. Environmental hazards:** YES

**14.6. Special precautions for user:**

**14.7. Transport in bulk according to Annex II of MARPPOL73/78 and the IBC Code:**

RID

**14.1. UN number:** 3082

**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fenpyroximate mixture)\*

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

**14.5. Environmental hazards:** YES

**14.6. Special precautions for user:**

**14.7. Transport in bulk according to Annex II of MARPPOL73/78 and the IBC Code:**

IMDG

**14.1. UN number:** 3082

**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fenpyroximate mixture)\*

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

**14.5. Environmental hazards:** MARINE POLLUTANT

**14.6. Special precautions for user:**

**14.7. Transport in bulk according to Annex II of MARPPOL73/78 and the IBC Code:**

ICAO/IATA

**14.1. UN number:** 3082

**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fenpyroximate mixture)\*

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

**14.5. Environmental hazards:** YES

**14.6. Special precautions for user:**

**14.7. Transport in bulk according to Annex II of MARPPOL73/78 and the IBC Code:**

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**SECTION 15: REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.2. Chemical safety assessment**

A chemical safety assessment according to art. 14 of Regulation (EC) No. 1907/2006 is not required, because art. 15 of the same regulation applies

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**SECTION 16: OTHER INFORMATION**

This safety data sheet is prepared in accordance with Commission Regulation (EU) 2015/830.

Indication of changes:

\*Revised data or information

Text of H-Code(s) mentioned in SECTION 2 and SECTION 3 (for information only):

H301:	Toxic if swallowed.
H302:	Harmful if swallowed.
H315:	Causes skin irritation.
H317:	May cause an allergic skin reaction.
H318:	Causes serious eye damage.
H319:	Causes serious eye irritation.
H330:	Fatal if inhaled.
H332:	Harmful if inhaled.
H400:	Very toxic to aquatic life.
H410:	Very toxic to aquatic life with long lasting effects.
EUH401:	To avoid risks to human health and the environment, comply with the instructions for use.

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Further Carechem 24 International Emergency Telephone Numbers:\*

France (language: English, French):	+33 1 72 11 00 03
Germany (language English, German):	+49 89 220 610 12 or toll free +49 (0)800 000 7801
Spain (language: English, Spanish):	+34 91 114 2520
Italy (language: English, Italian):	+39 02 3604 2884
Netherlands (language: English, Dutch):	+31 10 713 8195
Middle East (language English, Arabic):	+44 1273 289 454
EMEA region (language English only):	+44 1865 407 333

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This version of MSDS is based on NNC-MSDS:  
NNI-850 5SC (REACH recipe) (V3) (EU-GHS) 18.12.18  
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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.

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