

Safety data sheet in accordance with Regulation (EC) No 1907/2006

Prepared : March 10, 2008

Version 9: Revised : December 16, 2022

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

## 1.1 Product identifier

Product name: **Hexythiazox 3%+Fenpyroximate 6% SC**

UFI code: 1800-P0VS-K00M-T7VY

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

Acaricide for agricultural use

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

## Contact in EU

Company Name : Nisso Chemical Europe GmbH

Address : Berliner Allee 42

40212 Düsseldorf

Germany

Telephone Number : +49-(0)211-130 66 86 0

Telefax Number : +49-(0)211-328231

Email: : [sds@nisso-chem.de](mailto:sds@nisso-chem.de)1.4 Emergency Telephone Number: CHEMTREC +1-703-741-5970 (24-hour)

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## 2. HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Sens.1A: H317 May cause an allergic skin reaction

Aquatic Acute 1: H400 Very toxic to aquatic life

Aquatic Chronic 1 : H410 Very toxic to aquatic life with long lasting effects

## 2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008



Hazard pictogram GHS07, GHS09

Signal word Warning

## Hazard statement

H317 May cause an allergic skin reaction

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

Contains 1,2-Benzisothiazolin-3-one

## Precautionary statement

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/national/international regulations.

P362+P364 Take off contaminated clothing and wash it before reuse.

SP 1 Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

## 2.3 Other hazards

This product does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex X

## III.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

CAS No.	EC No.	Index No. /REACH Registration No.	Content (wt%)	Substance name	Classification according to Regulation (EC) No 1272/2008
78587-05-0	Not applicable (pesticide)	613-125-00-6/—	3.0 (pure)	<i>trans</i> -5-(4-Chlorophenyl)- <i>N</i> -cyclohexyl-4-methyl-2-oxothiazolidine-3-carboxamide ISO name: Hexythiazox	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M=1 M(Chronic)=1
13409-8-61-6	Not applicable (pesticide)	607-713-00-1/—	6.0 (pure)	tert-Butyl 4-[(E)-[(1,3-dimethyl-5-phenoxy-1H-pyrazol-4-yl)methylene]amino}oxy)methyl]benzoate ISO name: Fenpyroximate	Acute Tox 3; H301 Acute Tox 2; H330 Skin Sens. 1B; H317 Aquatic Acute 1; H400 M = 100 Aquatic Chronic 1; H410 M (Chronic) = 1000
99734-09-5	Not applicable (Polymer)	—/—	2.2	Ethoxylated polyarylphenol Other name: Poly(oxy-1,2-ethanediyl), .alpha.-[tris(1-phenylethyl)phenyl]-.omega.a.-hydroxy-	Aquatic Chronic 3; H412
68411-30-3	270-115-0	—/01-2119489428-22	1.3	Benzenesulphonic acid, C10-13 alkyl derivs., sodium salts	Acute Tox 4; H302 Skin Irrit 2; H315 Eye Dam 1; H318 Aquatic Chronic 3; H412
2634-33-5	220-120-9	613-088-00-6/—	<0.05	1,2-Benzisothiazolin-3-One	Acute Tox.4; H302 Skin Irrit.2; H315 Eye Dam.1; H318 Skin Sens.1; H317 <sup>1)</sup>

					Aquatic Acute 1; H400
—	—	—	Balance	Water and others	—

<sup>1)</sup>Specific Concentration Limits and M Factors Concentration  $0.05\% \leq C$ : Classification, Skin sens.1; H317

#### 4. FIRST AID MEASURES

##### 4.1 Description of first aid measures

Inhalation: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor

Skin contact: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Immediately call a POISON CENTER/doctor.

Ingestion: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting.

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

Not available

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

No specific antidote. Supportive care. Treatment based on judgment of physician in response to symptoms of patient.

#### 5. FIRE - FIGHTING MEASURES

##### 5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide, foam, dry chemical or water spray.

Unsuitable extinguishing media : Not known

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

Thermal decomposition or combustion may produce toxic gas such as carbon oxides, sulfur oxides, nitrogen oxides and hydrogen chloride.

##### 5.3 Advice for firefighters

Protective equipment : Wear self-contained breathing apparatus and complete personal protective equipment.

Other information : Move containers away from fire areas if it can be done without risk. If impossible to remove containers from fire zone, cool them with water spray.

#### 6. ACCIDENTAL RELEASE MEASURES

##### 6.1 Personal precaution, protective equipment and emergency procedures

Wear personal protective equipment. Refer to Section 8 for personal protective equipment.

Avoid contact with skin, eyes and clothing.

Avoid breathing the mist or vapours.

Evacuate area.

Ventilate area.

##### 6.2 Environmental precautions:

Avoid discharging this product or its solution into drains, ditches, river, sea or lake etc.

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

Sweep up, place in containers and holds for waste disposal. Use inert absorbent (e.g. sand or vermiculite) to complete pick-up if necessary. Bank up soil or sand around spill to prevent it from flowing out to environment. Use vacuum truck if spill is large.

Wash spill site with soap and plenty of water after material pick-up is complete.

Do not discharge to river, sea, lake, waterway or sewer systems directly.

Obey all local/national/international regulations for health & safety and environmental protection in treating spill.

#### 6.4 Reference to other sections

Section 8 and 13

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### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Wear personal protective equipment. Refer to Section 8 for personal protective equipment.

Keep out of reach of children.

Avoid contact with skin, eyes and clothing.

Avoid breathing mist/vapours/spray

Wash hands and face thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

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

Keep container tightly closed.

Store in a cool, dry and well-ventilated place.

Keep away from direct sunlight, oxidizing agents, foods, drink and animal feedingstuffs.

Avoid release to the environment during storage by spill collection using leakage trays, pans, etc.

#### 7.3 Specific end use

Acaricide for agricultural use

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control parameters

ACGIH TLV: Not listed (2021)      EU IOELV: Not listed (2021)

#### 8.2 Exposure controls

##### 8.2.1 Appropriate engineering controls

Use general and/or local exhaust ventilation to control vapours/mist.

Provide safety showers and eyewashes.

##### 8.2.2 Individual protection measures, such as personal protective equipment

(a) Eye/face protection: Use safety goggles.

(b) Skin protection

Hand protection: Protective gloves against chemicals and micro-organisms.

Glove Materials; e.g. outside polyvinyl chloride, Polyethylene or Rubber

Inside Cotton, rayon

Others: Wear suitable working clothes, hand protection and boots.

(c) Respiratory protection: Wear suitable respirator for organic vapours.

(d) Thermal hazards : None

##### 8.2.3 Environmental exposure controls

Use general and/or local exhaust ventilation to control vapours and mist.

Provide safety showers and eyewashes.

Prevent this product from entering into drains, ditches or rivers.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

(a) Physical state	Liquid
(b) Colour	White
(c) Odour	Almost no smell
(d) Melting Point/freezing point	Not available
(e) Boiling point or initial boiling point and boiling range	100 °C
(f) Flammability	Not available
(g) Lower and upper explosion limit	Not available
(h) Flash Point	No flash point below its boiling temperature
(i) Auto-Ignition temperature	Below 400 °C
(j) Decomposition temperature	Not available
(k) pH	6~7(1% dilute)
(l) Kinetic viscosity	Viscosity: 118 mPa · s(20°C), 102 mPa · s(40°C)
(m) Solubility	
Solubility in water	0.12 mg/L (25 °C) (Hexythiazox) 0.015 mg/L (20 °C) (Fenpyroximate)
Solubility in solvents	Not available
(n) Partition coefficient n-octanol/water (log value)	2.67 (0.23ppm, 25 °C) (Hexythiazox) 5.01 (Fenpyroximate)
(o) Vapour pressure	<1.333×10 <sup>-6</sup> Pa (20 °C) (Hexythiazox) 7.4×10 <sup>-6</sup> Pa (25 °C) (Fenpyroximate)
(p) Density and/or relative density	Specific Gravity (H <sub>2</sub> O=1) 1.04 at 20°C
(q) Relative vapour density	Not applicable
(r) Particle characteristics	Not applicable

### 9.2 Other information

#### 9.2.1. Information with regard to physical hazard classes

Explosives	No explosive properties
Oxidising liquids	No oxidizing properties

#### 9.2.2. Other safety characteristics

Surface Tension	29.0 mN/m (25°C)
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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

The dangerous reactivity is not known.

### 10.2 Chemical stability

Stable under normal storage and handling conditions.

### 10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

### 10.4 Conditions to avoid

Extremes of temperature

### 10.5 Incompatible materials

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Strong oxidizing agents

10.6 Hazardous decomposition products

Thermal decomposition or combustion may produce toxic gas such as carbon oxides, sulfur oxides, nitrogen oxides and hydrogen chloride.

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11 TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a)acute toxicity

For the Product

Oral	LD <sub>50</sub> (rat):	> 2000mg/kg (female)
Dermal	LD <sub>50</sub> (rat):	> 2000mg/kg (male, female)
Inhalation	LC <sub>50</sub> (rat):	5.05mg / L / 4hr

(b)skin corrosion/irritation

For the Product

Dermal (rabbit):	Mild
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(c)serious eye damage/irritation

For the Product

Eyes (rabbit):	Mild
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(d)respiratory or skin sensitization

For the Product

Dermal (mouse):	Positive
Respiratory:	Not available

(e)germ cell mutagenicity

For the Product

Not available

Hexythiazox

Ames test :	Negative
Chromosomal aberration test :	Negative
Micronucleus test(mouse):	Negative
UDS study :	Negative

Fenpyroximate

Ames test :	Negative
Chromosomal aberration test :	Negative
Micronucleus test (mouse) :	Negative

(f)carcinogenicity

For the Product

Not available

Hexythiazox

Rat:	Negative
Mouse:	Negative

Fenpyroximate

Rat :	Negative
Mouse :	Negative

(g)reproductive toxicity

Reproductive toxicity

For the Product

Not available

Hexythiazox

Rat :	Negative
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Fenpyroximate

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Rat :	Negative (two-generation reproduction study)
Teratogenicity	
Hexythiazox	
Rat:	Negative
Rabbit:	Negative
Fenpyroximate	
Rat :	Negative
Rabbit:	Negative

## (h)STOT-single exposure

For the Product Not available

## (i)STOT-repeated exposure

For the Product: Not available

Hexythiazox

Chronic toxicity :

Dietary NOAEL (rat): 23.1 mg/kg/day(male), 29.3 mg/kg/day(female) (2 years)

Dietary NOAEL (dog) : 2.87 mg/kg/day(male), 3.17 mg/kg/day(female) (1year)

Fenpyroximate

It was considered that target organs of fenpyroximate were GI tract, liver and lung.

(j)aspiration hazard Not available

## 11.2 Information on other hazards

Not available

## 12. ECOLOGICAL INFORMATION

## 12.1 Toxicity

For the Product

Acute Toxicity to fish

Rainbow trout: LC<sub>50</sub> :0.039 mg/L (96 hr)

Acute Toxicity to aquatic invertebrates

Daphnia magna EC<sub>50</sub>: 0.0302 mg/L (48 hr)

Acute Toxicity for aquatic algae

*Scenedesmus subspicatu* ErC<sub>50</sub>: >73.1 mg/L (72 hr )

Chronic Toxicity for aquatic algae

*Scenedesmus subspicatus* NOEC: 73.1 mg/L (72 hr)

Acute Toxicity for Bobwhite Quail: LD<sub>50</sub>: > 2250 mg/kg

## 12.2 Persistence and degradability

For the Product

Not available

Hexythiazox

Not readily biodegradable

Fenpyroximate

Hydrolysis: stable (25°C, pH 4, 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)

## 12.3 Bioaccumulative potential

For the Product

Not available

Hexythiazox

BCF(whole fish) : 1100 ( at 0.0036 mg/l )

Fenpyroximate

Not available

## 12.4 Mobility in soil

Not available

## 12.5 Results of PBT and vPvB assessment

This product does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex X III.

12.6. Endocrine disrupting properties Not available

12.7 Other adverse effects

Hazardous to the ozone layer: This product does not contain substances listed in the Annexes to the Montreal Protocol.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

- 1) Waste disposal according to 91/689/EEC in the corresponding versions (hazardous waste).
- 2) Consider classifications (European waste catalogue) 02 01 or 07 04.
- 3) Consult the appropriate local authorities about special requirement.
- 4) Dispose of contents/container in accordance with local /national/international regulations.

14. TRANSPORT INFORMATION

IMDG

14.1 UN number UN 3082

14.2 Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

(Hexythiazox & Fenpyroximate mixture)

14.3 Transport hazard class(es) 9

14.4 Packing group III

14.5 Environmental hazards : Marine pollutant Applicable

ADR/RID/ADN

14.1 UN number UN 3082

14.2 Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Hexythiazox & Fenpyroximate mixture)

14.3 Transport hazard class(es) 9

Hazard Identification No. 90

14.4 Packing group III

14.5 Environmental hazards : Applicable

ICAO/IATA

14.1 UN number UN 3082

14.2 Proper shipping name

Environmentally hazardous substance, liquid, n.o.s.

(Hexythiazox & Fenpyroximate mixture))

14.3 Transport hazard class(es) 9

14.4 Packing group III

14.5 Environmental hazards Applicable

14.6 Special precautions for user None

14.7. Maritime transport in bulk according to IMO instruments Not applicable



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

## EU regulatory information

The product is regulated under the EU Directive(s) or Regulation(s) on plant protection products since it is one of plant protection products.

## National regulatory information

Water Hazard Class (Germany): WGK 2

**15.2 Chemical safety assessment**

Chemical safety assessment for Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts in this mixture has been carried out.

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**16. OTHER INFORMATION**

This safety data sheet is prepared in accordance with Regulation (EC) No1907/2006.

**(a) Added, deleted or revised information**

New format was applied in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006.

Section 15: Chemical safety assessment was amended.

Section 1, 6, 8, 9, 12,14: Minor amendments were done.

**(b) List of relevant hazard statements and/or precautionary statements**

H301 Toxic if swallowed

H302 Harmful if swallowed

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H330 Fatal if inhaled

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

H412 Harmful to aquatic life with long lasting effects

EUH401 To avoid risks to human health and the environment, comply with the instructions for use

**(b) Key literature references and sources for data**

None

**(c) Key or legend to abbreviations and acronyms used in the safety data sheet**

None

**(e) Advice on any training appropriate for workers to ensure protection of human health and the environment.**

None

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