

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

Prepared : November 9,1998

Version 18: Revised : December 16, 2022

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

1.1 Product identifier

Hexythiazox 10%WP

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

1) 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.de1.4 Emergency Telephone Number: CHEMTREC +1-703-741-5970 (24-hour)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

This product is not classified as dangerous according to Regulation (EC) No 1272/2008.

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008

Hazard pictogram Not applicable

Signal word Not applicable

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

Precautionary statement

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/—	10.0 (pure)	trans-5-(4-chlorophenyl)-N-cyclohexyl-4-methyl-2-oxo-3-thiazolidine-carboxamide (ISO name: Hexythiazox)	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M=1 M=1(chronic)
68411-30-3	270-115-0	—/01-211948942 8-22-XXXX	1.0	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	Acute Tox.4; H302 Skin Irrit.2; H315 Eye Dam.1; H318 Aquatic Chronic 3; H412
—	—	—/—	83.9	Carriers	—
—	—	—/—	5.1	Additives (surfactants etc.)	—

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 if you feel unwell.

Skin contact: Remove contaminated clothing and shoes, and wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

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

Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Rinse mouth with water. Call a POISON CENTER/doctor if you feel unwell.

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 harmful/irritant gas or fume such as carbon dioxides, -nitrogen oxides, hydrogen chloride and organic compound.

5.3 Advice for firefighters

Protective equipment : Wear self-contained breathing apparatus and complete personal protective equipment as it may evolve harmful and irritant gas/fume in heating or combusting.

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 dust. Avoid raising dust.

Evacuate area. Keep away from all ignition sources.

Ventilate area.

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up

Sweep up, place in a closed containers and hold for waste disposal. Use inert absorbent (e.g. sand or vermiculite) to complete pick-up if necessary. 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 Federal, State or local /national/international regulations for health & safety and environmental protection when accidental spills are treated.

6.4 Reference to other sections

Section 8 and 13

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.

Do not breathe dust.

Wash hands and face thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

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

Avoid direct contact with water, acids or base.

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

7.3 Specific end use

Acaricide for agricultural use

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 dust.

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.

Gloves materials: e.g. outside Rubber, Vinyl chloride Resin

inside Cotton, Rayon

Others : Wear suitable working wear, gloves and boots.

(c) Respiratory protection: Wear suitable respirator for dust

(d) Thermal hazards None

8.2.3 Environmental exposure controls

Use general and/or local exhaust ventilation to control dust.

Provide safety showers and eyewashes.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

(a) Physical state Solid, powder

(b) Colour Off-white

(c) Odour Weak fruity

(d) Melting Point/freezing point Not available

(e) Boiling point or initial boiling point and boiling range

Not applicable

(f) Flammability This product doesn't have auto flammability in normal condition.

(g) Lower and upper explosion limit

Not applicable

(h) Flash Point Not applicable

(i) Auto-Ignition temperature Not applicable

(j) Decomposition temperature Not available

(k) pH 8.1 (1% aqueous dispersion)

(l) Kinetic viscosity Not applicable

(m) Solubility

Solubility in water Negligible, but dispersible

Solubility in solvents Not available

(n) Partition coefficient n-octanol/water (log value)

2.67 as active ingredient(0.23 ppm, 25°C)

(o) Vapour pressure $<1.333 \times 10^{-6}$ Pa at 20°C (as active ingredient)

(p) Density and/or relative density 0.15-0.25 g/cm³(bulk density)

(q) Relative vapour density Not applicable

(r) Particle characteristics Not available

9.2 Other information

9.2.1. Information with regard to physical hazard classes

Explosives Not explosive

Oxidizing solids Not oxidising

9.2.2. Other safety characteristics

Not available

10. STABILITY AND REACTIVITY

10.1 Reactivity

The specific test data of the reactivity hazards is not available.

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

High temperature, heat, direct sunlight

10.5 Incompatible materials

Strong oxidizing agents, strong acids or bases

10.6 Hazardous decomposition products

Thermal decomposition or combustion may produce harmful/irritant gas or fume such as carbon dioxides, nitrogen oxides, hydrogen chloride and organic compounds.

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 ₅₀ (rat):	> 2000 mg/kg (male, female)
Dermal	LD ₅₀ (rat):	> 2000 mg/kg (male, female)
Inhalation	LC ₅₀ (rat):	> 5.41 mg/L (4hr) (male, female)

(b)skin corrosion/irritation

For the Product

Dermal (rabbit): Not irritant

(c)serious eye damage/irritation

For the Product

Eye (rabbit): Not irritant

(d)respiratory or skin sensitization

For the Product

Dermal (guinea pig): Negative

Respiratory: Not available

(e)germ cell mutagenicity

For the Product: Not available

Hexythiazox	
Ames test:	Negative
Chromosome aberration test:	Negative
Micronucleus test(mouse):	Negative
UDS study:	Negative
(f)carcinogenicity	
For the Product	Not available
Hexythiazox	
	Negative (rat)
	Negative (mouse)
(g)reproductive toxicity	
reproductive toxicity	
For the Product	Not available
Hexythiazox	Negative (rat)
teratogenicity	
For the Product	Not available
Hexythiazox	Negative (rat)
	Negative (rabbit)
(h)STOT-single exposure	Not available
(i)STOT-repeated exposure	
Chronic Toxicity	
For the Product	Not available
Hexythiazox	
NOAEL (rat):	23.1 mg/kg/day(male), 29.3 mg/kg/day(female) (2 years)
NOAEL (dog):	2.87 mg/kg/day(male), 3.17 mg/kg/day(female) (1year)
(j)aspiration hazard	Not available

11.2 Information on other hazards

Not available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Acute Toxicity to Fish

Carp: LC₅₀ 161mg/L (96hr)Rainbow trout : LC₅₀ : > 72 mg/L (96hr)

Acute Toxicity to Aquatic invertebrates

Daphnia magna EC₅₀ : > 100mg/L(48hr)Daphnia carinata EC₅₀ : 4.9mg/L(48hr)

Acute Toxicity to Aquatic algae

EbC₅₀: 162mg/L (72hr)

Chronic Toxicity to Aquatic invertebrates

Daphnia magna NOEC: 1.16 mg/L(21 days)

Chronic Toxicity to Aquatic algae

NOEC: 25mg/L (72hr)

12.2 Persistence and degradability

For the Product: Not available

Hexythiazox: Not readily biodegradable

12.3 Bioaccumulative potential

For the Product: Not available

Hexythiazox: BCF(whole fish) : 1100 (at 0.0036mg/L)

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) No1907/2006, 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

14.1 UN number

Not classified as dangerous goods in IMDG, ADR/RID/AND and ICAO/IATA.

14.2 Proper shipping name

Not classified as dangerous goods in IMDG, ADR/RID/AND and ICAO/IATA.

14.3 Transport hazard class(es)

Not classified as dangerous goods in IMDG, ADR/RID/AND and ICAO/IATA.

14.4 Packing group

Not classified as dangerous goods in IMDG, ADR/RID/AND and ICAO/IATA.

14.5 Environmental hazards

Marine pollutant: Not 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 1

15.2 Chemical safety assessment

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

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 12: Hazardous to the ozone layer was added.

Section 15: Chemical safety assessment was amended.

Section 1, 2, 8, 9, 10, 14, 15: Minor amendments were done.

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

302 Harmful if swallowed

H315 Causes skin irritation

H318 Causes serious eye damage

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

(c) Key literature references and sources for data

None

(d) 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
