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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : FURY® 200 EW

Other means of identification : ZETA-CYPERMETHRIN 200 G/L EW

Manufacturer or supplier's details

Company : FMC QUÍMICA DO BRASIL LTDA.

Address : AVENIDA DR. JOSÉ BONIFÁCIO

COUTINHO NOGUEIRA 150 - 1º ANDAR - JARDIM MADALENA,

CAMPINAS SP BRASIL TELEFONE: (19) 2042-4500

Emergency telephone : Brazil: (34) 3319 3019 or 0800 34 35 450 (24 hours)

+55-2139581449 (CHEMTREC)

Recommended use of the chemical and restrictions on use

Recommended use : Can be used as insecticide only.

Insecticide

Restrictions on use : Use as recommended by the label.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with ABNT NBR 14725 Standard

Flammable liquids : Category 3

Acute toxicity (Oral) : Category 3

Acute toxicity (Inhalation) : Category 4

Acute toxicity (Dermal) : Category 5

Skin corrosion/irritation : Category 2

Serious eye damage/eye irri-

tation

Category 2B

Carcinogenicity : Category 1B

Specific target organ toxicity - :

single exposure

Category 2 (Nervous system)

Specific target organ toxicity - : Category 3 (Respiratory system, Central nervous system)

single exposure

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Specific target organ toxicity - :

repeated exposure

Category 2 (Nervous system)

Aspiration hazard : Category 1

Short-term (acute) aquatic

hazard

Category 1

Long-term (chronic) aquatic

hazard

Category 1

GHS label elements in accordance with ABNT NBR 14725 Standard

Hazard pictograms









Signal Word : DANGER

Hazard Statements : H226 Flammable liquid and vapor.

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H313 May be harmful in contact with skin. H315 + H320 Causes skin and eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H350 May cause cancer.

H371 May cause damage to organs (Nervous system).

H373 May cause damage to organs (Nervous system) through

prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.

No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/

equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Response:

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P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/ attention

P337 + P313 If eye irritation persists: Get medical advice/ attention.

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

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P391 Collect spillage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified	64742-95-6	Flam. Liq., 3 Acute Tox. (Oral), 5 Acute Tox. (Inhalation), 4 Acute Tox. (Dermal), 5 Skin corrosion/irritation, 2 Serious eye damage/eye irritation, 2A Carc., 2 STOT SE, (Respirato-	>= 20 -< 25
		ry system, Central	

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		nervous system) , 3 Asp. Tox., 1 Aquatic Acute, 2 Aquatic Chronic, 2	
Zeta cypermethrin	52315-07-8	Acute Tox. (Oral), 3 Acute Tox. (Inhalation), 4 Acute Tox. (Dermal), 5 Skin Sens., 1 STOT SE, (Nervous system), 2 STOT SE, (Respiratory system), 3 STOT RE, (Nervous system), 2 Aquatic Acute, 1 Aquatic Chronic, 1	>= 10 -< 20
ethanediol	107-21-1	Acute Tox. (Dermal), 5 STOT RE, (Oral)(Kidney), 2 Aquatic Acute, 3	>= 5 -< 10
1,2-benzisothiazol-3(2H)-one	2634-33-5	Acute Tox. (Oral), 4 Serious eye damage/eye irritation, 1 Skin Sens., 1 Aquatic Acute, 1 Aquatic Chronic, 2	>= 0,0025 -< 0,025

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

ance.

Symptoms of poisoning may appear several hours later.

Do not leave the victim unattended.

If inhaled : Consult a physician after significant exposure.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact : Wash off with soap and water.

If on clothes, remove clothes.

If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

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If eye irritation persists, consult a specialist.

If swallowed Keep respiratory tract clear.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms

and effects, both acute and delayed

Exposure may result in tremors, decreased motor activity, and or impaired gait.

Swallowing or inhaling may result in sudden shortness of

breath, coughing, nausea and or abdominal pain.

Toxic if swallowed.

May be fatal if swallowed and enters airways.

May be harmful in contact with skin. Causes skin and eye irritation.

Harmful if inhaled.

May cause respiratory irritation. May cause drowsiness or dizziness.

May cause cancer.

May cause damage to organs.

May cause damage to organs through prolonged or repeated

exposure.

Protection of first-aiders Avoid inhalation, ingestion and contact with skin and eyes.

Notes to physician Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

Do not spread spilled material with high-pressure water

streams.

Specific hazards during fire

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod: :

ucts

Fire may produce irritating, corrosive and/or toxic gases.

Carbon oxides

Hazardous combustion products

Nitrogen oxides (NOx) Chlorinated compounds Hydrogen chloride Hydrogen cyanide

Specific extinguishing meth-

ods

Remove undamaged containers from fire area if it is safe to do

Use a water spray to cool fully closed containers.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

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Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment :

for fire-fighters

Firefighters should wear protective clothing and self-contained

breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

tive equipment and emergency procedures Evacuate personnel to safe areas.

Do not touch or walk through the spilled material.

If it can be safely done, stop the leak. Use personal protective equipment.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Never return spills in original containers for re-use.

Collect as much of the spill as possible with a suitable absor-

bent material.

Pick up and transfer to properly labeled containers. Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Do not spray on a naked flame or any incandescent material.

Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors).

Keep away from open flames, hot surfaces and sources of

ignition.

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapors/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national

regulations.

Hygiene measures : Avoid contact with skin, eyes and clothing.

Do not inhale aerosol.

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

Conditions for safe storage : Prevent unauthorized access.

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No smoking.

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified	64742-95-6	TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
ethanediol	107-21-1	TWA (Vapor) STEL (Vapor)	25 ppm 50 ppm	ACGIH ACGIH
		STEL (Inhalable fraction, Aerosol only)	10 mg/m3	ACGIH

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an

approved filter.

Hand protection

Material : Protective gloves

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Protective measures : Plan first aid action before beginning work with this product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Color : beige

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Odor : No data available

Odor Threshold : No data available

pH : 3-5

Concentration: 50 g/l

Melting point/ range : No data available

Boiling point/boiling range : No data available

Flash point : 42,6 °C

Evaporation rate : No data available

Self-ignition : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1,061 g/cm3

Solubility(ies)

Water solubility : Miscible

Solubility in other solvents : Solvent: Methanol

Description: partly miscible

Solvent: Toluene

Description: partly miscible

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 4,102 mPa.s

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Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : Non-oxidizing

Molecular weight : Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reac-

tions

Vapors may form explosive mixture with air.

No decomposition if stored and applied as directed.

Conditions to avoid : Avoid extreme temperatures.

Avoid formation of aerosol. Heat, flames and sparks.

Incompatible materials : Avoid strong acids, bases, and oxidizers.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Toxic if swallowed.

May be harmful in contact with skin.

Harmful if inhaled.

Product:

Acute oral toxicity : LD50 (Rat, female): > 50 - 300 mg/kg

Method: OECD Test Guideline 423

Assessment: The component/mixture is toxic after single in-

gestion.

Acute inhalation toxicity : LC50 (Rat): 1,26 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Symptoms: Tremors, ataxia

GLP: yes

Acute dermal toxicity : LD50 (Rat): > 4.000 mg/kg

Symptoms: Irritation

Assessment: The component/mixture is minimally toxic after

single contact with skin. Remarks: no mortality

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Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Acute oral toxicity : LD50 (Rat, female): 3.492 mg/kg

Method: OECD Test Guideline 401

LD50 (Rat, male): 6.984 mg/kg Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 6,193 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: no mortality

Assessment: The component/mixture is moderately toxic after

short term inhalation.

Acute dermal toxicity : LD50 (Rabbit, male and female): > 3.160 mg/kg

Assessment: The component/mixture is minimally toxic after

single contact with skin.

Zeta cypermethrin:

Acute oral toxicity : LD50 (Rat, male): 187 - 326 mg/kg

Symptoms: Gastrointestinal tract damage, hypoactivity, apa-

thy, piloerection, ataxia, Salivation

LD50 (Rat, male and female): 69,2 - 142,3 mg/kg

Method: FIFRA 81.01

GLP: yes

Acute inhalation toxicity : LC50 (Rat, female): 1,6 - 3,4 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: EPA OPP 81 - 3

LC50 (Rat, male and female): 1,26 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: EPA OPP 81 - 3 Target Organs: Nervous system

Symptoms: Fatality

GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

LD50 (Rabbit): > 2.460 mg/kg

Remarks: no mortality

ethanediol:

Acute inhalation toxicity : LC0 (Rat, male and female): > 2,5 mg/l

Exposure time: 6 h

Test atmosphere: dust/mist

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Remarks: no mortality

Acute dermal toxicity : LD50 (Mouse, male and female): > 3.500 mg/kg

1,2-benzisothiazol-3(2H)-one:

Acute oral toxicity : LD50 (Rat, male and female): 490 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

Causes skin irritation.

Product:

Species : Rabbit

Assessment : Irritating to skin.

Method : OECD Test Guideline 404

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Mild skin irritation

Assessment : Irritating to skin.

Zeta cypermethrin:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

Species : Rabbit

Assessment : Not classified as irritant

Result : slight irritation

GLP : yes

ethanediol:

Species : Rabbit

Result : No skin irritation

1,2-benzisothiazol-3(2H)-one:

Species : Rabbit Exposure time : 72 h

Method : OECD Test Guideline 404

Result : No skin irritation

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Serious eye damage/eye irritation

Causes eye irritation.

Product:

Species : Rabbit

Assessment : Mild eye irritation

Method : OECD Test Guideline 405

Remarks : Vapors may cause irritation to the eyes, respiratory system

and the skin.

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Species : Rabbit

Result : No eye irritation

Assessment : Irritating to eyes.

Zeta cypermethrin:

Species : Rabbit

Result : No eye irritation

Assessment : Not classified as irritant
Method : OECD Test Guideline 405

ethanediol:

Species : Rabbit

Result : No eye irritation

1,2-benzisothiazol-3(2H)-one:

Species : Bovine cornea Result : No eye irritation

Method : OECD Test Guideline 437

Species : Rabbit

Result : Irreversible effects on the eye

Method : EPA OPP 81-4

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Test Type : Buehler Test Routes of exposure : Dermal Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitization.

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Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Test Type : Maximization Test Routes of exposure : Skin contact Species : Guinea pig

Method : OECD Test Guideline 406
Result : Not a skin sensitizer.

Zeta cypermethrin:

Test Type : Local lymph node assay (LLNA)

Routes of exposure : Dermal Species : mice

Assessment : May cause sensitization by skin contact.

Method : OECD Test Guideline 429

Result : May cause sensitization by skin contact.

ethanediol:

Test Type : Maximization Test

Species : Guinea pig

Result : Does not cause skin sensitization.

1,2-benzisothiazol-3(2H)-one:

Test Type : Maximization Test

Species : Guinea pig

Method : OECD Test Guideline 406

Result : May cause sensitization by skin contact.

Species : Guinea pig Method : FIFRA 81.06

Result : May cause sensitization by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Product:

Genotoxicity in vitro : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse

Method: OECD Test Guideline 474

Result: negative

Germ cell mutagenicity -

Assessment

: Animal testing did not show any mutagenic effects., Tests on

bacterial or mammalian cell cultures did not show mutagenic

effects.

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Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Genotoxicity in vitro : Test Type: in vitro DNA damage and/or repair study

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: reverse mutation assay

Metabolic activation: with and without metabolic activation

Result: negative

Genotoxicity in vivo : Test Type: Bone marrow chromosome aberration.

Species: Rat (male and female) Application Route: Inhalation

Result: negative

Zeta cypermethrin:

Genotoxicity in vitro : Test Type: Ames test

Result: negative

Test Type: unscheduled DNA synthesis assay

Test system: rat hepatocytes

Result: negative

Test Type: Chromosome aberration test in vitro

Metabolic activation: with and without metabolic activation

Result: negative

GLP: yes

Genotoxicity in vivo : Test Type: chromosome aberration assay

Species: Chinese hamster Cell type: Bone marrow Application Route: Oral

Result: negative

Germ cell mutagenicity -

Assessment

Weight of evidence does not support classification as a germ

cell mutagen.

ethanediol:

Genotoxicity in vitro : Test Type: reverse mutation assay

Method: OPPTS 870.5100

Result: negative

Genotoxicity in vivo : Test Type: dominant lethal test

Species: Rat

Application Route: Oral

Result: negative

1,2-benzisothiazol-3(2H)-one:

Genotoxicity in vitro : Test Type: gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

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Method: OECD Test Guideline 476

Result: negative

Test Type: Ames test

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

Result: positive

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay

Species: Rat (male) Cell type: Liver cells

Application Route: Ingestion

Exposure time: 4 h

Method: OECD Test Guideline 486

Result: negative

Test Type: Micronucleus test

Species: Mouse Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

Germ cell mutagenicity -

Assessment

Weight of evidence does not support classification as a germ

cell mutagen.

Carcinogenicity

May cause cancer.

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Carcinogenicity - Assess-

ment

: Limited evidence of carcinogenicity in animal studies

Zeta cypermethrin:

Species : Rat Application Route : Oral

Exposure time : 24 month(s)
NOAEL : 7,5 mg/kg bw/day

Result : negative

ethanediol:

Species : Mouse
Application Route : Oral
Exposure time : 24 month(s)
Result : negative

Reproductive toxicity

Not classified based on available information.

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Product:

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Effects on fertility : Test Type: Three-generation study

Species: Rat

Application Route: inhalation (vapor)
Fertility: NOAEC Mating/Fertility: 7,5 mg/l

Result: negative

Remarks: Based on data from similar materials

Effects on fetal development : Species: Mouse

Application Route: inhalation (vapor)

General Toxicity Maternal: LOAEC: 500 part per million

Symptoms: Maternal effects.

Zeta cypermethrin:

Effects on fertility : Test Type: Two-generation study

Species: Rat

Application Route: Oral

General Toxicity F1: NOAEL: 22 mg/kg bw/day

Method: OECD Test Guideline 416

Result: negative

Effects on fetal development : Test Type: Embryo-fetal development

Species: Rat

Application Route: Oral

General Toxicity Maternal: NOAEL: 12,5 mg/kg bw/day Developmental Toxicity: NOAEL: 35 mg/kg bw/day

Method: OECD Test Guideline 426

Result: negative

GLP: yes

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

1,2-benzisothiazol-3(2H)-one:

Effects on fertility : Species: Rat, male

Application Route: Ingestion

General Toxicity Parent: NOAEL: 18,5 mg/kg body weight General Toxicity F1: NOAEL: 48 mg/kg body weight

Fertility: NOAEL: 112 mg/kg bw/day

Symptoms: No effects on reproduction parameters.

Method: OPPTS 870.3800

Result: negative

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

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STOT-single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

May cause damage to organs (Nervous system).

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Assessment : May cause respiratory irritation.

May cause drowsiness or dizziness.

Zeta cypermethrin:

Target Organs : Nervous system

Assessment : The substance or mixture is classified as specific target organ

toxicant, single exposure, category 2.

Assessment : May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs (Nervous system) through prolonged or repeated exposure.

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Zeta cypermethrin:

Target Organs : Nervous system

Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 2.

ethanediol:

Routes of exposure : Oral Target Organs : Kidney

Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 2.

1,2-benzisothiazol-3(2H)-one:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Species : Rat, male and female

NOAEC : 0,8 - 0,9 mg/l Application Route : Inhalation Test atmosphere : vapor

Remarks : Based on data from similar materials

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Species : Rat, male
NOAEL : 600 mg/kg
Application Route : Oral

Remarks : Based on data from similar materials

Zeta cypermethrin:

Species : Dog
NOAEL : 5 mg/kg
LOAEL : 15 mg/kg
Application Route : Oral
Exposure time : 1 yr

Dose : 1, 5, 15 mg/kg/d

Symptoms : Gastrointestinal disturbance, Neurological disorders

Species : Dog

NOAEL : 6 mg/kg bw/day LOAEL : 18 mg/kg bw/day

Application Route : Oral Exposure time : 90 d

Target Organs : Nervous system

Species : Rat

NOAEL : 16.7 mg/kg bw/day LOAEL : 33.7 mg/kg bw/day

Application Route : Oral Exposure time : 90 d

Target Organs : Nervous system

Species : Dog
NOAEL : 6 mg/kg
LOAEL : 18 mg/kg
Application Route : Oral
Exposure time : 1 yr

Dose : 3, 6, 18, 33 mg/kg/d Method : EPA OPP 83-1

Symptoms : Tremors

Species : Rat
NOAEL : 4,5 mg/kg
Application Route : Oral
Exposure time : 2 yr

Dose : 0.6, 4.5, 30, 45 mg/kg/d

Target Organs : Liver

ethanediol:

Species : Rat
NOAEL : 150 mg/kg
Application Route : Oral
Exposure time : 12 Months

Species : Dog

NOAEL : > 2.200 - < 4.400 mg/kg

Application Route : Dermal

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Exposure time : 4 Weeks

Method : OECD Test Guideline 410

1,2-benzisothiazol-3(2H)-one:

Species : Rat, male and female

NOAEL : 15 mg/kg Application Route : Ingestion Exposure time : 28 d

Method : OECD Test Guideline 407

Symptoms : Irritation

Species : Rat, male and female

NOAEL : 69 mg/kg Application Route : Ingestion Exposure time : 90 d

Symptoms : Irritation, Reduced body weight

Aspiration toxicity

May be fatal if swallowed and enters airways.

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

May be fatal if swallowed and enters airways.

Zeta cypermethrin:

The substance does not have properties associated with aspiration hazard potential.

Experience with human exposure

Components:

Zeta cypermethrin:

General Information : Symptoms: May cause paraesthesia

Further information

Product:

Remarks : Symptoms of overexposure may be headache, dizziness,

tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause

narcotic effects.

Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

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Toxicity to fish : NOEC (Oncorhynchus mykiss (rainbow trout)): 4,5 mg/l

Exposure time: 96 h
Test Type: semi-static test

Method: OECD Test Guideline 203

Remarks: Based on data from similar materials

LL50 (Pimephales promelas (fathead minnow)): 8,2 mg/l

Exposure time: 96 h Test Type: semi-static test

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): 4,5 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

EL50 (Pseudokirchneriella subcapitata (microalgae)): 3,1 mg/l

Exposure time: 72 h
Test Type: static test

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Toxicity to fish (Chronic tox-

icity)

NOELR (Pimephales promelas (fathead minnow)): 2,6 mg/l

Exposure time: 14 d

Method: OECD Test Guideline 204

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOELR (Daphnia magna (Water flea)): 2,6 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

Toxicity to microorganisms : EC50 (Tetrahymena pyriformis): 15,41 mg/l

Exposure time: 40 h

Test Type: Growth inhibition

Remarks: The value is given based on a SAR/AAR approach

using OECD Toolbox, DEREK, VEGA QSAR models

(CAESAR models), etc.

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Zeta cypermethrin:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,69 µg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,141 µg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (algae): > 1 mg/l Exposure time: 72 h

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Toxicity to fish (Chronic tox-

icity)

NOEC (Fish): 0,015 µg/l Exposure time: 21 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Crustaceans): 0,01 µg/l

Exposure time: 21 d

Toxicity to soil dwelling or-

ganisms

LC50 (worms): > 100 mg/kg

Exposure time: 14 d

Toxicity to terrestrial organ-

isms

LD50 (Colinus virginianus (Bobwhite quail)): > 2.025 mg/kg

NOEC (Colinus virginianus (Bobwhite quail)): 150 mg/kg

End point: Reproduction Test

LD50 (Apis mellifera (bees)): 0,059 µg/bee

LC50 (Apis mellifera (bees)): 0,033 µg/bee

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

ethanediol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 72.860 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

IC50 (Pseudokirchneriella subcapitata (green algae)): 10.940

mg/l

Exposure time: 96 h

Toxicity to fish (Chronic tox-

icity)

(Menidia peninsulae (tidewater silverside)): 1.500 mg/l

Exposure time: 28 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

(Daphnia magna (Water flea)): 33.911 mg/l

Exposure time: 21 d

Toxicity to microorganisms : (activated sludge): > 1.995 mg/l

Exposure time: 30 min Method: ISO 8192

1,2-benzisothiazol-3(2H)-one:

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): 16,7

mg/l

Exposure time: 96 h Test Type: static test

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LC50 (Oncorhynchus mykiss (rainbow trout)): 2,15 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2,9 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 0,070

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,04

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

M-Factor (Acute aquatic tox-

icity)

: 10

Toxicity to microorganisms : EC50 (activated sludge): 24 mg/l

Exposure time: 3 h

Test Type: Respiration inhibition Method: OECD Test Guideline 209

EC50 (activated sludge): 12,8 mg/l

Exposure time: 3 h

Test Type: Respiration inhibition Method: OECD Test Guideline 209

Persistence and degradability

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Biodegradability : Concentration: 49,2 mg/l

Result: Inherently biodegradable.

Biodegradation: 77,05 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Zeta cypermethrin:

Biodegradability : Result: Not readily biodegradable.

ethanediol:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 90 - 100 %

Exposure time: 10 d

Method: OECD Test Guideline 301A

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1,2-benzisothiazol-3(2H)-one:

Biodegradability Result: rapidly biodegradable

Method: OECD Test Guideline 301C

Bioaccumulative potential

Product:

Bioaccumulation Remarks: No data available

Components:

Zeta cypermethrin:

Bioaccumulation Remarks: Accumulation in aquatic organisms is expected.

Partition coefficient: n-

octanol/water

log Pow: 5 - 6 (24 °C)

ethanediol:

Partition coefficient: n-

octanol/water

log Pow: -1,36

1,2-benzisothiazol-3(2H)-one:

Bioaccumulation Species: Lepomis macrochirus (Bluegill sunfish)

Bioconcentration factor (BCF): 6,62

Exposure time: 56 d

Method: OECD Test Guideline 305

Remarks: Substance is not persistent, bioaccumulative, and

toxic (PBT).

Partition coefficient: n-

octanol/water

log Pow: 0,7 (20 °C)

pH: 7

log Pow: 0,99 (20 °C)

pH: 5

Mobility in soil

Components:

Zeta cypermethrin:

Distribution among environ-

mental compartments

Remarks: immobile

1,2-benzisothiazol-3(2H)-one:

Distribution among environ-

mental compartments

Koc: 9,33 ml/g, log Koc: 0,97 Method: OECD Test Guideline 121 Remarks: Highly mobile in soils

Other adverse effects

Product:

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Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

Components:

Zeta cypermethrin:

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging

It is prohibited to reuse, bury, burn or sell packaging.

Washable packaging: Triple wash packs of less than 20 liters and pressure wash packs of 20 liters or more. Triple Wash (Manual Wash): Completely empty the contents of the package into the sprayer tank, keeping it in an upright position for 30 seconds; Add clean water to the package up to 1/4 of its volume; Cover the package well and shake it for 30 seconds; Pour the wash water into the spray tank; Do this operation three times; Make the plastic or metal packaging unusable by

perforating the bottom.

Pressure wash: Fit the empty package in the appropriate place of the funnel installed on the sprayer: Activate the mechanism to release the water jet; Direct the water jet to all the inside walls of the package, for 30 seconds; Wash water must be transferred to the sprayer tank; Make the plastic or metal packaging unusable by perforating the bottom. In both procedures, puncture the container at its base without damaging the label. Within a period of up to one year from the date of purchase, the user must return the empty packaging, with lid, to the establishment where the product was purchased or to the place indicated on the invoice, issued at the time of purchase. Activate the mechanism to release the water jet. Direct the water jet to all the inside walls of the package, for 30 seconds. Wash water must be transferred to the sprayer tank. Make the plastic or metal packaging unusable by perforating the bottom.

SECTION 14. TRANSPORT INFORMATION

International Regulations

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UNRTDG

UN number : UN 3351

Proper shipping name : PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE

(Solvent naphtha (petroleum), light aromatic, Zeta-

Cypermethrin)

Class : 6.1
Subsidiary risk : 3
Packing group : III
Labels : 6.1 (3)
Environmentally hazardous : yes

IATA-DGR

UN/ID No. : UN 3351

Proper shipping name : Pyrethroid pesticide, liquid, toxic, flammable

663

(Solvent naphtha (petroleum), light aromatic, Zeta-

Cypermethrin)

Class : 6.1 Subsidiary risk : 3 Packing group : III

Labels : Toxic, Flammable Liquids

Packing instruction (cargo

aircraft)

Packing instruction (passen: 655

ger aircraft)

IMDG-Code

UN number : UN 3351

Proper shipping name : PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE

(Solvent naphtha (petroleum), light aromatic, Zeta-

Cypermethrin)

Class : 6.1
Subsidiary risk : 3
Packing group : III
Labels : 6.1 (3)
EmS Code : F-E, S-D
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

ANTT

UN number : UN 3351

Proper shipping name : PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE, ,

WITH PFG = OR > THAN 23° C

(Solvent naphtha (petroleum), light aromatic, Zeta-

Cypermethrin)

Class : 6.1
Subsidiary risk : 3
Packing group : III
Labels : 6.1 (3)
Hazard Identification Number : 63

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Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

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

Law No. 14,785 of December 27, 2023. Decree 4,074 of January 4, 2002 and its regulatory standards. ANTT Resolution No. 5,998/22 of November 3, 2022. This MSDS was prepared in accordance with the criteria of ABNT NBR 14725. The user is recommended to pay attention to local regulations.

National List of Carcinogenic Agents for Humans - (LINACH)

Brazil. List of chemicals controlled by the Federal Po-

lice

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -

unspecified

The ingredients of this product are reported in the following inventories:

TCSI : Not in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

MIXTURE OF THE STEREOISOMERS (S)-A-CYANO-3-

PHENOXYBENZYL (1RS,3RS;1RS,3SR)-3-(2,2-

DICHLOROVINYL)-2.2-

DIMETHYLCYCLOPROPANECARBOXYLATE

Sulfurous acid, monosodium salt, reaction products with cre-

sol-formaldehyde-nonylphenol polymer

Sodium alkylnaphthalenesulfonate, formaldehyde condensate

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

TECI: Not in compliance with the inventory

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SECTION 16. OTHER INFORMATION

Revision Date : 24.02.2025

Date format : dd.mm.yyyy

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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