PYZERO 10EC



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1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PYZERO 10EC

Other means of identification PYZERO 100EC

Metamifop 100 g/L EC

MATARI 10EC

Recommended use of the chemical and restrictions on use

Recommended use : Can be used as herbicide only.

Restrictions on use Use as recommended by the label.

Manufacturer or supplier's details

Company FMC Agro Philippines, Inc.

Address 5th Avenue cor. 26th Street,

Bonifacio Global City, Taguig City NCR 1634

+63279443400 Telephone

National Poison Control Cen-

U.P. PGH, Padre Faura, Manila (+63) 2 8524 1078 East Avenue, Quezon City

(+63) 2 8928 0611 Southern Philippines Medical Center (+63) 82 227 2731

(formerly Davao Medical Center Davao City)

Emergency telephone For leak, fire, spill or accident emergencies, call:

+(63) 2-395-3308 (CHEMTREC)

Medical emergency:

All other countries: +1 651 / 632-6793 (Collect)

2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion/irritation Category 2

Serious eye damage/eye irri-

tation

Category 2

Skin sensitization Category 1

Carcinogenicity Category 2

Specific target organ toxicity - :

single exposure

Category 3 (Central nervous system)

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Aspiration hazard : Category 1

Long-term (chronic) aquatic

hazard

Category 2

GHS label elements

Hazard pictograms







Signal Word : Danger

Hazard Statements : H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer.

H411 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.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Response:

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

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

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 + P313 IF exposed or concerned: Get medical advice/

attention.
P331 Do NOT induce vomiting.

P333 + P313 If skin irritation or rash 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.

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P391 Collect spillage.

Storage:

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

tightly closed.

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Oxirane, methyl-, polymer with oxirane, octyl	61827-84-7	>= 20 -< 30
ether		
Solvent naphtha (petroleum), heavy arom.	64742-94-5	>= 20 -< 25
2-ethylhexyl acetate	103-09-3	>= 10 -< 20
(2R)-2-[4-[(6-chloro-2-	256412-89-2	>= 2.5 -< 10
benzoxazolyl)oxy]phenoxy]-N-(2-fluorophenyl)-		
N-methylpropanamide		
acetophenone	98-86-2	>= 1 -< 10
calcium dodecylbenzenesulphonate	26264-06-2	>= 3 -< 10

4. FIRST AID MEASURES

General advice : Move out of dangerous area.

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 : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

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> 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

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer.

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

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

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire

fighting

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

courses.

Hazardous combustion prod-

ucts

Carbon oxides

Nitrogen oxides (NOx) Fluorine compounds

Specific extinguishing meth-

ods

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

For safety reasons in case of fire, cans should be stored sepa-

rately in closed containments.

Use a water spray to cool fully closed containers.

Special protective equipment:

for fire-fighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer-

gency procedures

Use personal protective equipment.

Ensure adequate ventilation.

Environmental precautions Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for Contain spillage, and then collect with non-combustible ab-

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containment and cleaning up sorbent material, (e.g. sand, earth, diatomaceous earth, ver-

miculite) and place in container for disposal according to local

/ national regulations (see section 13).

Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

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

Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Conditions for safe storage : 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Solvent naphtha (petroleum), heavy arom.	64742-94-5	TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
acetophenone	98-86-2	TWA	10 ppm	ACGIH

Personal protective equipment

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable per-

sonal respiratory protection and protective suit.

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Hand protection

Material : Wear chemical resistant gloves, such as barrier laminate,

butyl rubber or nitrile rubber.

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

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

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

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : light brown

Odor : aromatic

pH : 6.4 - 7

Method: CIPAC MT 75

Flash point : 64 °C

Density : 0.96 g/cm3 (20 °C)

Solubility(ies)

Water solubility : emulsifiable

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

No decomposition if stored and applied as directed.

Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

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Incompatible materials : Strong oxidizing agents

Strong acids

Strong bases

Hazardous decomposition

products

irritating gases

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : LD50 (Rat): 3,659 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Components:

Oxirane, methyl-, polymer with oxirane, octyl ether:

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 401

Solvent naphtha (petroleum), heavy arom.:

Acute oral toxicity : LD50 (Rat, male and female): > 5000 milligram per kilogram

Method: OECD Test Guideline 401

Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat, male and female): > 4.688 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2000 milligram per kilo-

gram

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Based on data from similar materials

2-ethylhexyl acetate:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Guinea pig): > 17,400 mg/kg

(2R)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-N-(2-fluorophenyl)-N-methylpropanamide:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

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Acute inhalation toxicity : LC50 (Rat): > 2.61 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

acetophenone:

Acute oral toxicity : LD50 (Rat, male and female): 2,081 mg/kg

Acute dermal toxicity : LD50 (Rat, male and female): 3,300 mg/kg

calcium dodecylbenzenesulphonate:

Acute oral toxicity : LD50 (Rat, male and female): 1300 milligram per kilogram

Remarks: Based on data from similar materials

Acute inhalation toxicity : Remarks: see user defined free text

Acute dermal toxicity : LD50 (Rat, male and female): > 2000 milligram per kilogram

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Based on data from similar materials

Skin corrosion/irritation

Causes skin irritation.

Product:

Result : Moderate skin irritation

Remarks : May cause skin irritation and/or dermatitis.

Components:

Oxirane, methyl-, polymer with oxirane, octyl ether:

Species : Guinea pig

Method : OECD Test Guideline 404

Result : No skin irritation

Remarks : Based on data from similar materials

Solvent naphtha (petroleum), heavy arom.:

Species : Rabbit

Result : No skin irritation

Remarks : Based on data from similar materials

2-ethylhexyl acetate:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Skin irritation

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(2R)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-N-(2-fluorophenyl)-N-methylpropanamide:

Species : Rabbit

Result : No skin irritation

acetophenone:

Species : Rabbit

Result : No skin irritation

calcium dodecylbenzenesulphonate:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Result : Moderate eye irritation

Remarks : May cause irreversible eye damage.

Components:

Oxirane, methyl-, polymer with oxirane, octyl ether:

Species : Rabbit

Result : Irreversible effects on the eye Method : OECD Test Guideline 405

Remarks : Based on data from similar materials

Solvent naphtha (petroleum), heavy arom.:

Species : Rabbit

Result : No eye irritation

Remarks : Based on data from similar materials

2-ethylhexyl acetate:

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

(2R)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-N-(2-fluorophenyl)-N-methylpropanamide:

Species : Rabbit

Result : No eye irritation

acetophenone:

Species : Rabbit

Result : No eye irritation Method : Draize Test

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calcium dodecylbenzenesulphonate:

Species : Rabbit

Result : Irreversible effects on the eye Method : OECD Test Guideline 405

Remarks : Based on data from similar materials

Species : Rabbit

Result : Irreversible effects on the eye Method : OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Product:

Result : The product is a skin sensitizer, sub-category 1B.

Remarks : Causes sensitization.

Components:

Solvent naphtha (petroleum), heavy arom.:

Test Type : Maximization Test

Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitization.
Remarks : Based on data from similar materials

2-ethylhexyl acetate:

Test Type : Draize Test Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitization.
Remarks : Based on data from similar materials

(2R)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-N-(2-fluorophenyl)-N-methylpropanamide:

Result : May cause sensitization by skin contact.

acetophenone:

Test Type : Draize Test Species : Guinea pig

Result : Does not cause skin sensitization.

calcium dodecylbenzenesulphonate:

Test Type : Maximization Test Species : Guinea pig

Method : OECD Test Guideline 406

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Result Not a skin sensitizer.

Based on data from similar materials Remarks

Germ cell mutagenicity

Not classified based on available information.

Components:

Oxirane, methyl-, polymer with oxirane, octyl ether:

Genotoxicity in vitro Test Type: reverse mutation assay

Test system: Salmonella typhimurium

Result: negative

Remarks: Based on data from similar materials

Solvent naphtha (petroleum), heavy arom.:

Genotoxicity in vitro Test Type: reverse mutation assay

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo Test Type: Cytogenetic assay

Species: Rat

Application Route: Intraperitoneal injection

Result: negative

Remarks: Based on data from similar materials

2-ethylhexyl acetate:

Genotoxicity in vitro Test Type: reverse mutation assay

Result: negative

Remarks: Based on data from similar materials

Test Type: gene mutation test

Result: negative

Remarks: Based on data from similar materials

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

Result: negative

Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro Genotoxicity in vivo

Species: Rat (male) **Application Route: Oral** Result: negative

Remarks: Based on data from similar materials

Test Type: Micronucleus test Species: Mouse (male and female) Application Route: Intraperitoneal injection

Result: negative

Remarks: Based on data from similar materials

Germ cell mutagenicity -

Assessment

Weight of evidence does not support classification as a germ

cell mutagen.

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(2R)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-N-(2-fluorophenyl)-N-methylpropanamide:

Genotoxicity in vitro : Test Type: Ames test

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Result: negative

Test Type: Chromosome aberration test in vitro

Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Result: negative

acetophenone:

Genotoxicity in vitro : Test Type: reverse mutation assay

Method: Mutagenicity (Salmonella typhimurium - reverse mu-

tation assay) Result: negative

Test Type: In vitro mammalian cell gene mutation test

Method: OECD Test Guideline 476

Result: negative

Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

Result: negative

Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

Result: positive

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse (male and female)
Application Route: Intraperitoneal injection

Method: OECD Test Guideline 474

Result: negative

calcium dodecylbenzenesulphonate:

Genotoxicity in vitro : Test Type: reverse mutation assay

Method: OECD Test Guideline 471

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: chromosome aberration assay

Species: Rat (male and female)

Application Route: Oral Exposure time: 90 d Result: negative

Remarks: Based on data from similar materials

Germ cell mutagenicity -

Assessment

Weight of evidence does not support classification as a germ

cell mutagen.

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Carcinogenicity

Suspected of causing cancer.

Components:

Solvent naphtha (petroleum), heavy arom.:

Species : Mouse
Application Route : Dermal
Exposure time : 104 weeks
Result : negative

Remarks : Based on data from similar materials

Carcinogenicity - Assess-

ment

Limited evidence of carcinogenicity in animal studies

2-ethylhexyl acetate:

Species : Mouse, male and female

Application Route : Oral

Exposure time : 18 month(s)

Dose : 0, 50, 200, 750 mg/kg bw/day

NOAEL : 200 mg/kg bw/day LOAEL : 750 mg/kg bw/day

Method : OECD Test Guideline 451

Result : negative

Remarks : Based on data from similar materials

(2R)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-N-(2-fluorophenyl)-N-methylpropanamide:

Species : Rat, male and female

NOAEL : 4.2 - 5.2 Result : negative

Species : Mouse, male and female

NOAEL : 5.6 - 7.9 Result : negative

calcium dodecylbenzenesulphonate:

Species : Rat, male and female

Application Route : Oral Exposure time : 720 d

NOAEL : 250 mg/kg body weight

Result : negative

Remarks : Based on data from similar materials

Carcinogenicity - Assess- : Weight of evidence does not support classification as a car-

ent cinogen

Reproductive toxicity

Not classified based on available information.

Components:

Solvent naphtha (petroleum), heavy arom.:

Effects on fertility : Test Type: Fertility

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Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 415

Result: negative

Remarks: Based on data from similar materials

Effects on fetal development : Test Type: reproductive and developmental toxicity study

Species: Rat

Application Route: Oral

Method: OECD Test Guideline 414

Result: negative

Remarks: Based on data from similar materials

2-ethylhexyl acetate:

Effects on fertility : Species: Rat, male and female

Application Route: Oral

Dose: 0, 1231, 3845, 12308 milligram per kilogram General Toxicity Parent: LOAEL: 12,308 mg/kg food General Toxicity F1: NOAEL: 12,308 mg/kg food

Method: OECD Test Guideline 443

Result: negative

Effects on fetal development : Test Type: Pre-natal

Species: Rat, female Application Route: Dermal

Dose: 252, 840, and 2520 mg/kg bw/d

General Toxicity Maternal: LOAEL: 2,520 mg/kg bw/day

Teratogenicity: NOAEL: 2,520 mg/kg bw/day

Developmental Toxicity: NOAEL: 2,520 mg/kg bw/day

Method: OECD Test Guideline 414

Result: negative

Remarks: Based on data from similar materials

Test Type: Pre-natal Species: Mouse, female Application Route: Oral

Dose: 0, 17, 59, and 191 mg/kg bw/d Duration of Single Treatment: 17 d

General Toxicity Maternal: NOAEL: 191 mg/kg bw/day Developmental Toxicity: NOAEL: 191 mg/kg bw/day Embryo-fetal toxicity.: NOAEL: 191 mg/kg bw/day

Method: OECD Test Guideline 414

Result: negative

Remarks: Based on data from similar materials

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

(2R)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-N-(2-fluorophenyl)-N-methylpropanamide:

Effects on fertility : Species: Rat, male and female

General Toxicity Parent: NOEL: 1.7 - 8.4 mg/kg bw/day

Fertility: NOEL: 1.7 - 2.1 mg/kg bw/day

Early Embryonic Development: NOEL: 1.7 - 2.1 mg/kg bw/day

Result: negative

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Effects on fetal development : Species: Rat

General Toxicity Maternal: NOAEL: 10 mg/kg bw/day Embryo-fetal toxicity.: NOAEL: 10 mg/kg bw/day

Result: negative

Species: Rabbit

General Toxicity Maternal: NOAEL: 90 mg/kg bw/day Embryo-fetal toxicity.: NOAEL: 90 mg/kg bw/day

Result: negative

acetophenone:

Effects on fertility : Test Type: one-generation reproductive toxicity

Species: Rat, male and female

Application Route: Oral

Dose: 0, 75, 225, 750 mg/kg bw/day

General Toxicity Parent: NOAEL: 750 mg/kg bw/day General Toxicity F1: LOAEL: 750 mg/kg bw/day

Method: OECD Test Guideline 422

Result: negative

Test Type: one-generation reproductive toxicity

Species: Rat, female Application Route: Oral

Dose: 0, 75, 225, 750 mg/kg bw/day

General Toxicity Parent: LOAEL: 750 mg/kg bw/day

Method: OECD Test Guideline 422

Result: negative

Effects on fetal development : Test Type: Pre-natal

Species: Rat

Application Route: Oral

Dose: 125, 300, 750mg/kgbw/day Duration of Single Treatment: 20 d

General Toxicity Maternal: LOAEL: 300 mg/kg bw/day Embryo-fetal toxicity.: LOAEL: 300 mg/kg bw/day

Method: OECD Test Guideline 414

calcium dodecylbenzenesulphonate:

Effects on fertility : Test Type: Fertility/early embryonic development

Species: Rat, male and female Application Route: Ingestion

General Toxicity Parent: NOAEL: 400 mg/kg body weight

Method: OECD Test Guideline 422

Result: negative

Effects on fetal development : Test Type: reproductive and developmental toxicity study

Species: Rat

Application Route: Ingestion

General Toxicity Maternal: NOAEL: 300 mg/kg body weight Developmental Toxicity: NOAEL: 600 mg/kg body weight

Method: OECD Test Guideline 422

Result: negative

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Reproductive toxicity - As-

sessment

: Weight of evidence does not support classification for repro-

ductive toxicity

STOT-single exposure

May cause drowsiness or dizziness.

Components:

Solvent naphtha (petroleum), heavy arom.:

Assessment : May cause drowsiness or dizziness.

acetophenone:

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

organ toxicant, single exposure.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Solvent naphtha (petroleum), heavy arom.:

Species : Rat, male and female

NOAEL : 300 mg/kg Application Route : Oral - gavage

Exposure time : 90 d

Remarks : Based on data from similar materials

Species : Rat, male and female NOAEL : 0.8 - 0.9 mg/l

Application Route : inhalation (vapor)

Exposure time : 12 m

Symptoms : Reduced body weight

2-ethylhexyl acetate:

Species : Mouse, male and female

NOEL : 125 mg/kg

NOAEL : 250 mg/kg bw/day
LOAEL : 500 mg/kg bw/day
Application Route : Oral - gavage

Exposure time : 90 d

Dose : 0, 25, 125, 250, 500mg/kg bw /
Method : OECD Test Guideline 408

Remarks : Based on data from similar materials

Species : Rat, male and female

120 ppm

Application Route : inhalation (vapor)

Exposure time : 90 d

Dose : 0, 15, 40 and 120 ppm Method : OECD Test Guideline 413

Remarks : Based on data from similar materials

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(2R)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-N-(2-fluorophenyl)-N-methylpropanamide:

Species : Rat, male and female

NOAEL : 1.7 - 2 mg/kg
Application Route : Ingestion
Exposure time : 90 days

Species : Mouse, male and female

NOAEL : 7.4 - 9.8 mg/kg
Application Route : Ingestion
Exposure time : 90 days

Species : Dog, male and female

NOAEL : 30 mg/kg Application Route : Ingestion Exposure time : 90 days

acetophenone:

Species : Rat, male and female NOAEL : 250 mg/kg bw/day LOAEL : 500 mg/kg bw/day Application Route : Oral - gavage

Exposure time : 90 d

Method : OECD Test Guideline 408

calcium dodecylbenzenesulphonate:

Species : Rat, male and female

NOAEL : 85 mg/kg
LOAEL : 145 mg/kg
Application Route : Oral
Exposure time : 9 months

Remarks : Based on data from similar materials

Species : Rat, male and female

NOAEL : 100 mg/kg LOAEL : 200 mg/kg Application Route : Oral Exposure time : 28 d

Method : OECD Test Guideline 422

Remarks : Based on data from similar materials

Species : Rat, male LOAEL : 286 mg/kg Application Route : Skin contact

Exposure time : 15 d

Remarks : Based on data from similar materials

Aspiration toxicity

May be fatal if swallowed and enters airways.

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Components:

Solvent naphtha (petroleum), heavy arom.:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

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.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Oxirane, methyl-, polymer with oxirane, octyl ether:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 10,000 mg/l

Exposure time: 96 h Method: DIN 38412

Remarks: Based on data from similar materials

Toxicity to microorganisms : EC20 (activated sludge): > 1,000 mg/l

Exposure time: 30 min

Method: OECD Test Guideline 209

Remarks: Based on data from similar materials

Solvent naphtha (petroleum), heavy arom.:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): 1.4 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EL50 (Pseudokirchneriella subcapitata (green algae)): 1 - 3

mg/l

Exposure time: 24 h

Method: OECD Test Guideline 201

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

EL50 (Daphnia magna (Water flea)): 0.89 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

Toxicity to microorganisms : LL50 (Tetrahymena pyriformis): 677.9 mg/l

Exposure time: 72 h

Test Type: Growth inhibition

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2-ethylhexyl acetate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 8.27 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 22.9 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): > 21.9

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 10.3

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

(2R)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-N-(2-fluorophenyl)-N-methylpropanamide:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.185 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.288 mg/l

Exposure time: 48 h

M-Factor (Acute aquatic tox- :

icity)

: 1

M-Factor (Chronic aquatic

toxicity)

: 1

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): > 1000 parts per million

Toxicity to terrestrial organ-

isms

LD50 (Apis mellifera (bees)): >100

LC50 (Colinus virginianus (Bobwhite quail)): > 1,043.3 mg/kg

acetophenone:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 162 mg/l

Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 528 mg/l

Exposure time: 48 h Test Type: static test

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Toxicity to algae/aquatic

plants

NOEC (Pseudokirchneriella subcapitata (algae)): 24.8 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (green algae)): 40 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to microorganisms : IC50 (activated sludge): > 1,000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

calcium dodecylbenzenesulphonate:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 2.8 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 203

Remarks: No toxicity at the limit of solubility.

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2.5 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: No toxicity at the limit of solubility.

Toxicity to algae/aquatic

plants

NOEC (Pseudokirchneriella subcapitata (green algae)): 7.9

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

No toxicity at the limit of solubility.

EC50 (Pseudokirchneriella subcapitata (green algae)): 65.4

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

No toxicity at the limit of solubility.

Toxicity to fish (Chronic tox-

icity)

NOEC (Fish): 0.23 mg/l Exposure time: 30 d

Mothod: OSAB

Method: QSAR

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia): 0.253 mg/l

Exposure time: 30 d Method: QSAR

Toxicity to microorganisms : EC50 (activated sludge): 500 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): 1,000 mg/kg

Exposure time: 14 d

Method: OECD Test Guideline 207

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Toxicity to terrestrial organ-

isms

LD50 (Colinus virginianus (Bobwhite quail)): 1,356 mg/kg

Exposure time: 14 d

Method: OECD Test Guideline 223

Persistence and degradability

Components:

Oxirane, methyl-, polymer with oxirane, octyl ether:

Biodegradability : Inoculum: activated sludge, non-adapted

Result: Biodegradable Biodegradation: 60 - 70 % Exposure time: 28 d

Method: OECD Test Guideline 301A

Remarks: Based on data from similar materials

Solvent naphtha (petroleum), heavy arom.:

Biodegradability : Result: Inherently biodegradable.

Biodegradation: 58.6 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Remarks: Based on data from similar materials

2-ethylhexyl acetate:

Biodegradability : Inoculum: activated sludge, non-adapted

Result: Readily biodegradable.

Biodegradation: 70 % Exposure time: 28 d

Method: OECD Test Guideline 301B

acetophenone:

Biodegradability : Inoculum: activated sludge

Result: Readily biodegradable. Biodegradation: 64.7 % Exposure time: 14 d

Method: OECD Test Guideline 301C

calcium dodecylbenzenesulphonate:

Biodegradability : Result: Readily biodegradable.

Method: OECD Test Guideline 301E

Bioaccumulative potential

Components:

Solvent naphtha (petroleum), heavy arom.:

Partition coefficient: n-

: log Pow: 2.4 - 6.5

octanol/water

2-ethylhexyl acetate:

Bioaccumulation : Bioconcentration factor (BCF): 202.4

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Method: QSAR

Partition coefficient: n-

octanol/water

: log Pow: 4.2 (25 °C)

(2R)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-N-(2-fluorophenyl)-N-methylpropanamide:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: 5.45 (20 °C)

pH: 7

acetophenone:

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): 0.47

Method: QSAR

Partition coefficient: n-

octanol/water

log Pow: 1.65

calcium dodecylbenzenesulphonate:

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): 70.79

Method: QSAR

Partition coefficient: n-

octanol/water

log Pow: 4.77 (25 °C)

Mobility in soil
No data available

Other adverse effects

Product:

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

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 : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

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14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Metamifop, Aromatic hydrocarbons)

Class : 9
Packing group : III
Labels : 9

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(Metamifop, Aromatic hydrocarbons)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo : 964

aircraft)

Packing instruction (passen- : 964

ger aircraft)

Environmentally hazardous : yes

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Metamifop, Aromatic hydrocarbons)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

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

Not applicable for product as supplied.

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.

15. REGULATORY INFORMATION

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

Priority Chemical List (PCL) : Not applicable

Chemical Control Order (CCO) : Not applicable

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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.

AICS : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

(R)-2-[4-(6-CHLORO-1,3-BENZOXAZOL-2-

YLOXY)PHENOXY]-2'-FLUORO-N-

METHYLPROPIONANILIDE

Oxirane, methyl-, polymer with oxirane, octyl ether

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

16. OTHER INFORMATION

Date format : yyyy/mm/dd

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average

AICS - Australian Inventory of Chemical Substances; 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 Chemical Substances in China; IMDG - International Chemical Substances in China; IM

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cals 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; 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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