

SAFETY DATA SHEET

PYZERO® 10 EC Herbicide



Version 1.0 Revision Date: 2022/10/06 SDS Number: 50001317 Date of last issue: - Date of first issue: 2022/10/06

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PYZERO® 10 EC Herbicide

Other means of identification : Metamifop 100 g/L EC

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 (Cambodia) Co., Ltd.

Address : Level 6, Phnom Penh Tower,
445 Monivong Boulevard, Khwaeng
Sangkat [...], Khan [...], Phnom Penh

E-mail address : SDS-Info@fmc.com

Emergency telephone : For leak, fire, spill or accident emergencies, call:
1 703 / 741-5970 (CHEMTREC - International)
001-800-13-203-9987 (CHEMTREC)

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

2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 4

Acute toxicity (Oral) : Category 5

Acute toxicity (Dermal) : Category 5

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation : Category 2A

Skin sensitization : Sub-category 1B

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- Carcinogenicity : Category 2
- Specific target organ toxicity - single exposure : Category 3 (Central nervous system)
- Aspiration hazard : Category 1
- Short-term (acute) aquatic hazard : Category 2
- Long-term (chronic) aquatic hazard : Category 2

GHS label elements

- Hazard pictograms : The image shows three hazard pictograms: a person with a splash mark (H313), an exclamation mark (H227), and a dead tree (H411).
- Signal Word : Danger
- Hazard Statements : H227 Combustible liquid.
H303 + H313 May be harmful if swallowed or in contact with skin.
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.
P210 Keep away from heat/ sparks/ open flames/ hot surfaces.
No smoking.
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/ eye protection/ face protection.
P281 Use personal protective equipment as required.
Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P302 + P352 IF ON SKIN: Wash with plenty of water and soap.
P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

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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 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Metamifop Technical	256412-89-2	>= 2.5 -< 10
Solvent naphtha (petroleum), heavy arom.	64742-94-5	>= 20 -< 25
2-ethylhexyl acetate	103-09-3	>= 10 -< 20
Alcohols, C11-15-secondary, Ethoxylated	68131-40-8	>= 10 -< 20
Oxirane, methyl-, polymer with oxirane, octyl ether	61827-84-7	>= 20 -< 30
acetophenone	98-86-2	>= 2.5 -< 10
Tristyrylphenol ethoxylates	99734-09-5	>= 2.5 -< 10
calcium dodecylbenzenesulphonate	26264-06-2	>= 3 -< 10

4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
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

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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.
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 harmful if swallowed or in contact with skin.
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 products : Carbon oxides
Nitrogen oxides (NOx)
Fluorine compounds
- Specific extinguishing methods : 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 separately 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 necessary.

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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency 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 containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) 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 application 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 storage stability : No decomposition if stored and applied as directed.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Solvent naphtha (petroleum), heavy arom.	64742-94-5	TWA	200 mg/m ³ (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 personal respiratory protection and protective suit.
- 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)

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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 reactions : No decomposition if stored and applied as directed.
Vapors may form explosive mixture with air.
Conditions to avoid : Heat, flames and sparks.
Incompatible materials : Strong oxidizing agents
Strong acids
Strong bases
Hazardous decomposition products : irritating gases

11. TOXICOLOGICAL INFORMATION

Acute toxicity

May be harmful if swallowed or in contact with skin.

Product:

Acute oral toxicity : LD50 (Rat): 3,659 mg/kg
Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Components:

Metamifop Technical:

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

Solvent naphtha (petroleum), heavy arom.:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
Remarks: Based on data from similar materials
Acute inhalation toxicity : LC50 (Rat): > 4.688 mg/l

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Exposure time: 4 h
Test atmosphere: vapor
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

2-ethylhexyl acetate:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg
Acute dermal toxicity : LD50 (Guinea pig): > 17,400 mg/kg

Alcohols, C11-15-secondary, Ethoxylated:

Acute oral toxicity : LD0 (Rat, female): >= 2,000 mg/kg
Method: OECD Test Guideline 423
Remarks: no mortality
Acute dermal toxicity : LD0 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
Remarks: no mortality

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

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 401

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

Tristyrylphenol ethoxylates:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
Remarks: Based on data from similar materials
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

calcium dodecylbenzenesulphonate:

Acute oral toxicity : LD50 (Rat, male and female): 1,300 mg/kg
Remarks: Based on data from similar materials
Acute inhalation toxicity : Remarks: Not classified
Acute dermal toxicity : LD50 (Rat, male and female): > 2000 milligram per kilogram

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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:

Metamifop Technical:

Species : Rabbit
Result : No skin irritation

Solvent naphtha (petroleum), heavy arom.:

Species : Rabbit
Assessment : Repeated exposure may cause skin dryness or cracking.
Result : No skin irritation
Remarks : Minimal effects that do not meet the threshold for classification.
Based on data from similar materials

2-ethylhexyl acetate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation

Alcohols, C11-15-secondary, Ethoxylated:

Species : reconstructed human epidermis (RhE)
Method : Regulation (EC) No. 440/2008, Annex, B.46
Result : No skin irritation

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

acetophenone:

Species : Rabbit
Result : No skin irritation

Tristyrylphenol ethoxylates:

Species : Rabbit

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Method : OECD Test Guideline 404
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:

Metamifop Technical:

Species : Rabbit
Result : No eye irritation

Solvent naphtha (petroleum), heavy arom.:

Species : Rabbit
Assessment : No eye irritation
Remarks : Minimal effects that do not meet the threshold for classification.
Based on data from similar materials

2-ethylhexyl acetate:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

Alcohols, C11-15-secondary, Ethoxylated:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

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

acetophenone:

Species : Rabbit
Result : No eye irritation
Method : Draize Test

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Tristyrylphenol ethoxylates:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

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:

Metamifop Technical:

Result : May cause sensitization by skin contact.

Solvent naphtha (petroleum), heavy arom.:

Test Type : Maximization Test
Species : Guinea pig
Result : Not a skin sensitizer.
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

Alcohols, C11-15-secondary, Ethoxylated:

Test Type : Local lymph node assay (LLNA)
Species : Mouse
Method : OECD Test Guideline 429

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Result : Slightly sensitising

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
Result : Not a skin sensitizer.
Remarks : Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:

Metamifop Technical:

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

Solvent naphtha (petroleum), heavy arom.:

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: Bone marrow chromosome aberration.
Species: Rat
Application Route: inhalation (vapor)
Result: negative

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

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

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Chromosome aberration test in vitro
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.

Alcohols, C11-15-secondary, Ethoxylated:

Genotoxicity in vitro : Test Type: reverse mutation assay
Method: Mutagenicity (Salmonella typhimurium - reverse mutation 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

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

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

acetophenone:

Genotoxicity in vitro : Test Type: reverse mutation assay
Method: Mutagenicity (Salmonella typhimurium - reverse mutation 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

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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

Tristyrylphenol ethoxylates:

Genotoxicity in vitro : Test Type: reverse mutation assay
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Remarks: No data available

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.

Carcinogenicity

Suspected of causing cancer.

Components:

Metamifop Technical:

Species : Rat, male and female
NOAEL : 4.2 - 5.2
Result : negative

Species : Mouse, male and female
NOAEL : 5.6 - 7.9
Result : negative

Solvent naphtha (petroleum), heavy arom.:

Species : Rat, male and female

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Application Route	:	inhalation (vapor)
Exposure time	:	12 month(s)
NOAEC	:	1.8 mg/l
Result	:	negative
Remarks	:	Based on data from similar materials
Carcinogenicity - Assessment	:	Not classifiable as a human carcinogen.

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

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 - Assessment	:	Weight of evidence does not support classification as a carcinogen

Reproductive toxicity

Not classified based on available information.

Components:

Metamifop Technical:

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
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

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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 - Assessment

: Weight of evidence does not support classification for reproductive toxicity

Alcohols, C11-15-secondary, Ethoxylated:

Effects on fetal development

: Test Type: Pre-natal
Species: Rat
Application Route: Oral
Dose: 100, 300, 1000 mg/kgbw/day
Duration of Single Treatment: 21 d
General Toxicity Maternal: LOAEL: 1,000 mg/kg bw/day
Embryo-fetal toxicity.: LOAEL: 1,000 mg/kg bw/day
Method: OECD Test Guideline 414
Result: negative

Reproductive toxicity - Assessment

: Weight of evidence does not support classification for reproductive toxicity

acetophenone:

Effects on fertility

: Test Type: one-generation reproductive toxicity
Species: Rat, male and female
Application Route: Oral

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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

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

STOT-single exposure

May cause drowsiness or dizziness.

Components:

Alcohols, C11-15-secondary, Ethoxylated:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

acetophenone:

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

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organ toxicant, single exposure.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Metamifop Technical:

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

Solvent naphtha (petroleum), heavy arom.:

Species	:	Rat, male and female
NOAEC	:	0.9 - 1.8 mg/l
Application Route	:	inhalation (vapor)
Exposure time	:	12 months

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
NOAEC	:	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

Alcohols, C11-15-secondary, Ethoxylated:

Species	:	Rat, male
NOAEL	:	100 mg/kg bw/day

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LOAEL : 300 mg/kg bw/day
Application Route : Oral - gavage
Exposure time : 90 d
Dose : 0, 100, 300, 1000 mg/kgbw/day
Method : OECD Test Guideline 408

Species : Rat, female
NOAEL : 300 mg/kg bw/day
LOAEL : 1000 mg/kg bw/day
Application Route : Oral - gavage
Exposure time : 90 d
Dose : 0, 100, 300, 1000 mg/kgbw/day
Method : OECD Test Guideline 408

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 Days
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 Days
Remarks : Based on data from similar materials

Aspiration toxicity

May be fatal if swallowed and enters airways.

Components:

Solvent naphtha (petroleum), heavy arom.:

May be fatal if swallowed and enters airways.

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Experience with human exposure

Components:

Solvent naphtha (petroleum), heavy arom.:

Skin contact : Symptoms: Repeated exposure may cause skin dryness or cracking.

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.

Components:

Solvent naphtha (petroleum), heavy arom.:

Remarks : Vapour concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects. Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Metamifop Technical:

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 toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1000 parts per million

Toxicity to terrestrial organ- : LD50 (Apis mellifera (bees)): >100

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

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 (Chronic 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

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

Alcohols, C11-15-secondary, Ethoxylated:

- Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 1.53 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

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Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 5.66 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (green algae)): 1.03 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	:	EC10 (Pimephales promelas (fathead minnow)): 0.87 mg/l Exposure time: 32 d Method: QSAR
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0.2 mg/l Exposure time: 21 d Method: QSAR
Toxicity to microorganisms	:	EC50 (activated sludge): 824 mg/l Exposure time: 3 h Method: OECD Test Guideline 209

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

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
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

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Tristyrylphenol ethoxylates:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 21 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to microorganisms : Remarks: No data available

calcium dodecylbenzenesulphonate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 10 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials

LC50 (Pimephales promelas (fathead minnow)): 4.6 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.5 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

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

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

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 1.65 mg/l
Exposure time: 21 d
Remarks: Based on data from similar materials

NOEC (Daphnia magna (Water flea)): 1.18 mg/l
Exposure time: 21 d
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): 500 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): 1,000 mg/kg
Exposure time: 14 d
Method: OECD Test Guideline 207

Toxicity to terrestrial organisms : LD50 (Colinus virginianus (Bobwhite quail)): 1,356 mg/kg
Exposure time: 14 d
Method: OECD Test Guideline 223

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Persistence and degradability

Components:

Solvent naphtha (petroleum), heavy arom.:

Biodegradability : Result: Readily 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

Alcohols, C11-15-secondary, Ethoxylated:

Biodegradability : Inoculum: activated sludge, non-adapted
Result: Readily biodegradable.
Biodegradation: 65 %
Exposure time: 28 d
Method: OECD Test Guideline 301C

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

acetophenone:

Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 64.7 %
Exposure time: 14 d
Method: OECD Test Guideline 301C

Tristyrylphenol ethoxylates:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 8 %
Exposure time: 28 d
Method: OECD Test Guideline 301

calcium dodecylbenzenesulphonate:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301E

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Bioaccumulative potential

Components:

Metamifop Technical:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 5.45 (20 °C)
pH: 7

Solvent naphtha (petroleum), heavy arom.:

Bioaccumulation : Remarks: The product/substance has a potential to bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 3.72
Method: QSAR

2-ethylhexyl acetate:

Bioaccumulation : Bioconcentration factor (BCF): 202.4
Method: QSAR

Partition coefficient: n-octanol/water : log Pow: 4.2 (25 °C)

acetophenone:

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 0.47
Method: QSAR

Partition coefficient: n-octanol/water : log Pow: 1.65

Tristyrylphenol ethoxylates:

Partition coefficient: n-octanol/water : Remarks: No data available

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

Components:

Solvent naphtha (petroleum), heavy arom.:

Distribution among environmental compartments : Remarks: Expected to partition to sediment and wastewater solids. Moderately volatile.

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Other adverse effects

Product:

Additional ecological information : 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 chemical 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.

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 aircraft) : 964
Packing instruction (passenger aircraft) : 964
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Metamifop, Aromatic hydrocarbons)

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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

Hazardous Substance Act : Conditions of restriction for the following entries should be considered:
nonionic surfactants
(Number on list 1; Number on list 18)

Emergency Decree on Controlling the Use of Volatile Substances : Not applicable

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

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NZIoC : Not in compliance with the inventory

16. OTHER INFORMATION

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Date format : yyyy/mm/dd

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

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

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

Disclaimer

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termining whether the product is fit for a particular purpose and suitable for the user's conditions and methods of use. Since the conditions and methods of use are beyond the control of FMC Corporation, FMC Corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

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