# SAFETY DATA SHEET

# POUNCE 384 EC

| Version | Revision Date: | SDS Number: | Date of last issue: - |
|---|---|---|---|
| 1.8 | 11/12/2021 | 50000489 | Date of first issue: 11/07/2017 |

## SECTION 1. IDENTIFICATION

**Product identifier**

**Other means of identification**

**Product code** 50000489

**Chemical nature** Insecticide

**Product Registration Number** 16688

**Recommended use of the chemical and restrictions on use**

**Recommended use** Can be used as insecticide only.

**Restrictions on use** Use as recommended by the label.

**Manufacturer or supplier's details**

**Manufacturer**

FMC Corporation
2929 WALNUT ST
PHILADELPHIA PA, 19104
SDS-Info@fmc.com

**Emergency telephone**

For leak, fire, spill or accident emergencies, call:
1 703 / 741-5970 (CHEMTREC - International)
1 703 / 527-3887 (CHEMTREC - Alternate)
1 800 / 424-9300 (CHEMTREC - U.S.A.)

Medical emergency:
All other countries: +1 651 / 632-6793 (Collect)
U.S.A. & Canada: +1 800 / 331-3148

## SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with the Hazardous Products Regulations**

| | | |
|---|---|---|
| Flammable liquids | : | Category 4 |
| Acute toxicity (Oral) | : | Category 4 |
| Acute toxicity (Inhalation) | : | Category 4 |
| Carcinogenicity | : | Category 2 |
| Specific target organ toxicity - single exposure | : | Category 2 (Central nervous system) |
| Specific target organ toxicity - repeated exposure | : | Category 2 (Central nervous system) |
| Aspiration hazard | : | Category 1 |

**GHS label elements**

Hazard pictograms :

Signal Word : Danger

Hazard Statements : H227 Combustible liquid.
H302 + H332 Harmful if swallowed or if inhaled.
H304 May be fatal if swallowed and enters airways.
H351 Suspected of causing cancer.
H371 May cause damage to organs (Central nervous system).
H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure.

Precautionary Statements :

**Prevention:**

P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P330 Rinse mouth.
P331 Do NOT induce vomiting.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

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**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Insecticide

**Components**

| Chemical name | Common Name/Synonym | CAS-No. | Concentration (% w/w) |
|---|---|---|---|
| Solvent naphtha (petroleum), light arom. | Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | 64742-95-6 | >= 30 - < 60 * |
| permethrin (ISO) | permethrin (ISO) | 52645-53-1 | >= 30 - < 60 * |
| 1,2,4-trimethylbenzene | 1,2,4-trimethylbenzene | 95-63-6 | >= 10 - < 30 * |
| Oxirane, methyl-, polymer with oxirane, monobutyl ether | Oxirane, methyl-, polymer with oxirane, monobutyl ether | 9038-95-3 | >= 1 - < 5 * |
| xylene | xylene | 1330-20-7 | >= 1 - < 5 * |

* Actual concentration or concentration range is withheld as a trade secret

## SECTION 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 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 : Harmful if swallowed or if inhaled.

| | | |
|---|---|---|
| and effects, both acute and delayed | | May be fatal if swallowed and enters airways.<br>Causes skin irritation.<br>Causes serious eye irritation.<br>May cause drowsiness or dizziness.<br>May cause genetic defects.<br>Suspected of causing cancer.<br>May cause damage to organs.<br>May cause damage to organs through prolonged or repeated exposure. |
| Notes to physician | : | Treat symptomatically. |

## SECTION 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 | : | No hazardous combustion products are known |
| Further information | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.<br>For safety reasons in case of fire, cans should be stored separately in closed containments.<br>Use a water spray to cool fully closed containers. |
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

| | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.<br>Ensure adequate ventilation. |
| Environmental precautions | : | Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>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).<br>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.<br>Keep away from open flames, hot surfaces and sources of ignition. |
| Advice on safe handling | : | Avoid formation of aerosol.<br>Do not breathe vapors/dust.<br>Avoid exposure - obtain special instructions before use.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Provide sufficient air exchange and/or exhaust in work rooms.<br>Dispose of rinse water in accordance with local and national regulations. |
| Conditions for safe storage | : | No smoking.<br>Keep container tightly closed in a dry and well-ventilated place.<br>Containers which are opened must be carefully resealed and kept upright to prevent leakage.<br>Observe label precautions.<br>Electrical installations / working materials must comply with the technological safety standards. |
| Materials to avoid | : | Do not store near acids. |
| Further information on storage 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. | 64742-95-6 | TWA | 200 mg/m3 (total hydrocarbon vapor) | CA AB OEL |
| | | TWA | 200 mg/m3 (total hydrocarbon vapor) | ACGIH |
| 1,2,4-trimethylbenzene | 95-63-6 | TWA | 25 ppm<br>123 mg/m3 | CA AB OEL |
| | | TWAEV | 25 ppm<br>123 mg/m3 | CA QC OEL |
| | | TWA | 25 ppm | CA BC OEL |
| | | TWA | 25 ppm | ACGIH |
| xylene | 1330-20-7 | TWA | 100 ppm<br>434 mg/m3 | CA AB OEL |
| | | STEL | 150 ppm<br>651 mg/m3 | CA AB OEL |

| | | | | |
|---|---|---|---|---|
| | | TWAEV | 100 ppm<br>434 mg/m3 | CA QC OEL |
| | | STEV | 150 ppm<br>651 mg/m3 | CA QC OEL |
| | | TWA | 100 ppm | CA BC OEL |
| | | STEL | 150 ppm | CA BC OEL |
| | | TWA | 100 ppm | ACGIH |
| | | STEL | 150 ppm | ACGIH |

**Biological occupational exposure limits**

| Components | CAS-No. | Control parameters | Biological specimen | Sam-pling time | Permissible concentra-tion | Basis |
|---|---|---|---|---|---|---|
| xylene | 1330-20-7 | Methylhip-puric acids | Urine | End of shift (As soon as possible after exposure ceases) | 1.5 g/g cre-atinine | ACGIH BEI |

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.

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.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : amber

Odor : hydrocarbon-like

pH : 4.8 (25 °C)

| | | |
|---|---|---|
| Flash point | : | 79.4 - 82 °C<br>Method: closed cup |
| Flammability (liquids) | : | Sustains combustion |
| Relative density | : | 8.89 |
| Solubility(ies)<br>Water solubility | : | emulsifiable |

## 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 reactions | : | No decomposition if stored and applied as directed.<br>Vapors may form explosive mixture with air. |
| Conditions to avoid | : | Heat, flames and sparks. |
| Incompatible materials | : | Not applicable |

## SECTION 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

Harmful if swallowed or if inhaled.

**Product:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat): 789 mg/kg |
| Acute inhalation toxicity | : | LC50 (Rat): 1.4 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist |
| Acute dermal toxicity | : | LD50 (Rabbit): > 2,000 mg/kg |

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

| | | |
|---|---|---|
| Species | : | Rabbit |
| Result | : | Moderate skin irritation |

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

| | | |
|---|---|---|
| Species | : | Rabbit |

Result : Moderate eye irritation

**Respiratory or skin sensitization**

**Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Product:**

Assessment : Does not cause skin sensitization.
Result : Not a skin sensitizer.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**Solvent naphtha (petroleum), light arom.:**

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

**1,2,4-trimethylbenzene:**

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

Test Type: gene mutation test
Method: OECD Test Guideline 476
Result: negative
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474

Result: negative

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

**Oxirane, methyl-, polymer with oxirane, monobutyl ether:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

**xylene:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Method: Regulation (EC) No. 440/2008, Annex, B.10
Result: negative

Test Type: sister chromatid exchange assay
Test system: Chinese hamster ovary cells
Result: negative

Genotoxicity in vivo : Test Type: Rodent Dominant Lethal Assay
Species: Mouse (male)
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 478
Result: negative

**Carcinogenicity**

Suspected of causing cancer.

**Product:**

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

**Reproductive toxicity**

Not classified based on available information.

**Components:**

**Solvent naphtha (petroleum), light arom.:**

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.

**permethrin (ISO):**

**1,2,4-trimethylbenzene:**

| | | |
|---|---|---|
| Effects on fertility | : | Test Type: Multi-generation study<br>Species: Rat, male and female<br>Application Route: inhalation (vapor)<br>Dose: 0, 100, 500 and 1500 parts per million<br>General Toxicity Parent: NOAEC: 500<br>Method: OECD Test Guideline 416<br>Result: negative |
| Effects on fetal development | : | Test Type: Developmental Toxicity Screening Test<br>Species: Rat<br>Application Route: inhalation (vapor)<br>Dose: 0, 100, 300, 600, 900 parts per million<br>Duration of Single Treatment: 15 d<br>General Toxicity Maternal: LOAEC: 600 part per million<br>Teratogenicity: NOAEC Mating/Fertility: 900 part per million<br>Embryo-fetal toxicity.: LOAEC F1: 600 part per million<br>Method: OECD Test Guideline 414<br>Result: negative |
| Reproductive toxicity - Assessment | : | Weight of evidence does not support classification for reproductive toxicity |

**Oxirane, methyl-, polymer with oxirane, monobutyl ether:**

| | | |
|---|---|---|
| Effects on fertility | : | Remarks: No data available |
| Effects on fetal development | : | Remarks: No data available |

**xylene:**

| | | |
|---|---|---|
| Effects on fertility | : | Test Type: Two-generation study<br>Species: Rat<br>Application Route: inhalation (vapor)<br>General Toxicity F1: NOAEC: 2.171 mg/l<br>Result: negative<br>Remarks: Based on data from similar materials |
| Effects on fetal development | : | Test Type: Pre-natal<br>Species: Rat<br>Application Route: inhalation (vapor)<br>Symptoms: Maternal effects.<br>Result: negative<br>Remarks: Based on data from similar materials |

**STOT-single exposure**

May cause damage to organs (Central nervous system).

**Product:**

| | | |
|---|---|---|
| Target Organs | : | Central nervous system |
| Assessment | : | The substance or mixture is classified as specific target organ toxicant, single exposure, category 2. |

**STOT-repeated exposure**

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

**Product:**

| | | |
|---|---|---|
| Target Organs | : | Central nervous system |
| Assessment | : | The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2. |

**Repeated dose toxicity**

**Components:**

**Solvent naphtha (petroleum), light arom.:**

| | | |
|---|---|---|
| Species | : | Rat, male and female |
| | : | 0.8 - 0.9 mg/l |
| Application Route | : | Inhalation |
| Test atmosphere | : | vapor |
| Remarks | : | Based on data from similar materials |

| | | |
|---|---|---|
| Species | : | Rat, male |
| NOAEL | : | 600 mg/kg |
| Application Route | : | Oral |
| Remarks | : | Based on data from similar materials |

**permethrin (ISO):**

| | | |
|---|---|---|
| Species | : | Rat |
| NOAEL | : | 270 mg/kg |
| Application Route | : | Oral - feed |
| Exposure time | : | 90 days |

| | | |
|---|---|---|
| Species | : | Rat |
| NOAEL | : | 20 mg/kg |
| Application Route | : | Oral - feed |
| Exposure time | : | 90 days |

**1,2,4-trimethylbenzene:**

| | | |
|---|---|---|
| Species | : | Rat, male and female |
| NOAEL | : | 600 mg/kg |
| Application Route | : | Oral - gavage |
| Exposure time | : | 91 d |
| Dose | : | 0, 50, 200 & 600 mg/kg bw/day |
| Method | : | OECD Test Guideline 408 |
| Remarks | : | Based on data from similar materials |

| | | |
|---|---|---|
| Species | : | Rat, male and female |
| | : | 1.8 mg/l |
| Application Route | : | inhalation (vapor) |
| Exposure time | : | 1 yr |
| Dose | : | 0, 450, 900, 1800 mg/m3 |
| Method | : | OECD Test Guideline 452 |

| | | |
|---|---|---|
| Species | : | Rat, male and female |
| | : | 1.23 mg/l |
| Application Route | : | inhalation (vapor) |
| Exposure time | : | 3 m |
| Dose | : | 0, 123, 492 & 1230 mg/m3 |
| Method | : | OECD Test Guideline 413 |

**Oxirane, methyl-, polymer with oxirane, monobutyl ether:**

| | | |
|---|---|---|
| Remarks | : | No data available |

**xylene:**

| | | |
|---|---|---|
| Species | : | Rat |
| | : | 3.515 mg/l |
| Application Route | : | Inhalation |
| Exposure time | : | 13 weeks |

**Aspiration toxicity**

May be fatal if swallowed and enters airways.

**Components:**

**Solvent naphtha (petroleum), light arom.:**

May be fatal if swallowed and enters airways.

**permethrin (ISO):**

No data available

**1,2,4-trimethylbenzene:**

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.

**xylene:**

May be fatal if swallowed and enters airways.

**Experience with human exposure**

**Components:**

**xylene:**

| | | |
|---|---|---|
| General Information | : | Target Organs: inner ear<br>Symptoms: hearing loss<br><br>Target Organs: Central nervous system<br>Symptoms: Drowsiness, Dizziness |

**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.:**

| | | |
|---|---|---|
| Toxicity to fish | : | NOEC (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l<br>Exposure time: 96 h<br>Test Type: semi-static test<br>Method: OECD Test Guideline 203<br>Remarks: Based on data from similar materials<br><br>LL50 (Pimephales promelas (fathead minnow)): 8.2 mg/l<br>Exposure time: 96 h<br>Test Type: semi-static test<br>Remarks: Based on data from similar materials |
| Toxicity to daphnia and other aquatic invertebrates | : | EL50 (Daphnia magna (Water flea)): 4.5 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Method: OECD Test Guideline 202<br>Remarks: Based on data from similar materials |
| Toxicity to algae/aquatic plants | : | EL50 (Pseudokirchneriella subcapitata (microalgae)): 3.1 mg/l<br>Exposure time: 72 h<br>Test Type: static test<br>Method: OECD Test Guideline 201<br>Remarks: Based on data from similar materials |
| Toxicity to fish (Chronic toxicity) | : | NOELR (Pimephales promelas (fathead minnow)): 2.6 mg/l<br>Exposure time: 14 d<br>Method: OECD Test Guideline 204<br>Remarks: Based on data from similar materials |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOELR (Daphnia magna (Water flea)): 2.6 mg/l<br>Exposure time: 21 d<br>Method: OECD Test Guideline 211 |
| Toxicity to microorganisms | : | EC50 (Tetrahymena pyriformis): 15.41 mg/l<br>Exposure time: 40 h<br>Test Type: Growth inhibition<br>Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc. |

**permethrin (ISO):**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Fish): 5.3 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Crustaceans): 0.001 mg/l<br>Exposure time: 48 h |
| Toxicity to algae/aquatic plants | : | EC50 (algae): 0.0125 mg/l<br>Exposure time: 72 h<br><br>NOEC (algae): .9<br>Exposure time: 96 h |
| Toxicity to fish (Chronic toxicity) | : | NOEC (Fish): 0.3<br>Exposure time: 21 d |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Crustaceans): 0.039<br>Exposure time: 21 d |

**1,2,4-trimethylbenzene:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Pimephales promelas (fathead minnow)): 7.72 mg/l<br>Exposure time: 96 h<br>Test Type: flow-through test |
| Toxicity to daphnia and other aquatic invertebrates | : | LC50 (Daphnia magna (Water flea)): 3.6 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202 |
| Toxicity to algae/aquatic plants | : | EC50 (green algae): 2.356 mg/l<br>Exposure time: 96 h<br>Method: QSAR |
| Toxicity to fish (Chronic toxicity) | : | Chronic Toxicity Value (Fish): 0.396 mg/l<br>Exposure time: 30 d<br>Method: QSAR |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | Chronic Toxicity Value (Daphnia magna (Water flea)): 0.367 mg/l<br>Exposure time: 16 d<br>Method: QSAR |
| Toxicity to microorganisms | : | (activated sludge): 500 mg/l<br>Exposure time: 3 h<br>Test Type: Respiration inhibition |
| Toxicity to soil dwelling organisms | : | LC50 (Eisenia fetida (earthworms)): 141.598 parts per million<br>Exposure time: 14 d |
| Toxicity to terrestrial organisms | : | LD50 (Colinus virginianus (Bobwhite quail)): > 2,250 mg/kg |

**Oxirane, methyl-, polymer with oxirane, monobutyl ether:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Pimephales promelas (fathead minnow)): > 1,200 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 1,000 mg/l<br>Exposure time: 48 h |

**xylene:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 2.6 mg/l<br>Exposure time: 96 h<br>Test Type: Static renewal test<br>Method: OECD Test Guideline 203<br>Remarks: Based on data from similar materials |
| Toxicity to algae/aquatic plants | : | EC50 (Pseudokirchneriella subcapitata (green algae)): 2.2 mg/l<br>Exposure time: 72 h<br>Test Type: static test<br>Method: OECD Test Guideline 201<br>Remarks: Based on data from similar materials<br><br>NOEC (Pseudokirchneriella subcapitata (green algae)): 0.44 mg/l<br>Exposure time: 72 h<br>Test Type: static test<br>Method: OECD Test Guideline 201<br>Remarks: Based on data from similar materials |
| Toxicity to fish (Chronic toxicity) | : | NOEC (Oncorhynchus mykiss (rainbow trout)): > 1.3 mg/l<br>Exposure time: 56 d<br>Test Type: flow-through test<br>Remarks: Based on data from similar materials |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Ceriodaphnia dubia (water flea)): 0.96 mg/l<br>Exposure time: 7 d<br>Remarks: Based on data from similar materials |
| Toxicity to microorganisms | : | NOEC (activated sludge): 16 mg/l<br>Exposure time: 28 h<br>Method: OECD Test Guideline 301F |
| Toxicity to soil dwelling organisms | : | NOEC (Eisenia fetida (earthworms)): 16 mg/kg<br>Exposure time: 14 d<br>Remarks: Based on data from similar materials |

**Persistence and degradability**

**Components:**

**Solvent naphtha (petroleum), light arom.:**

| | | |
|---|---|---|
| Biodegradability | : | Concentration: 49.2 mg/l<br>Result: Inherently biodegradable.<br>Biodegradation: 77.05 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301F |

**permethrin (ISO):**

Biodegradability : Result: Not readily biodegradable.

**1,2,4-trimethylbenzene:**

Biodegradability : Inoculum: activated sludge, non-adapted
Result: Inherently biodegradable.
Biodegradation: 69.67 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

**Oxirane, methyl-, polymer with oxirane, monobutyl ether:**

Biodegradability : Result: Readily biodegradable.

**xylene:**

Biodegradability : aerobic
Inoculum: activated sludge, non-adapted
Concentration: 16 mg/l
Result: Readily biodegradable.
Biodegradation: 98 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

aerobic
Inoculum: activated sludge, non-adapted
Concentration: 16 mg/l
Result: Readily biodegradable.
Biodegradation: 94 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

aerobic
Inoculum: activated sludge, non-adapted
Concentration: 16.2 mg/l
Result: Readily biodegradable.
Biodegradation: 90 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

**Bioaccumulative potential**

**Components:**

**permethrin (ISO):**

Bioaccumulation : Remarks: The product may be accumulated in organisms.

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

**1,2,4-trimethylbenzene:**

| | | |
|---|---|---|
| Bioaccumulation | : | Species: Pimephales promelas (fathead minnow)<br>Bioconcentration factor (BCF): 243<br>Method: QSAR |
| Partition coefficient: n-octanol/water | : | log Pow: 3.63 |

**xylene:**

| | | |
|---|---|---|
| Bioaccumulation | : | Species: Oncorhynchus mykiss (rainbow trout)<br>Bioconcentration factor (BCF): > 4.9<br>Exposure time: 7 d<br>Concentration: 1.3 mg/l<br>Remarks: Based on data from similar materials |
| Partition coefficient: n-octanol/water | : | log Pow: 3.2 (20 °C)<br>pH: 7<br>Remarks: Based on data from similar materials<br><br>log Pow: 3.12 (20 °C)<br>pH: 7<br>Remarks: Based on data from similar materials<br><br>log Pow: 3.15 (20 °C)<br>pH: 7<br>Remarks: Based on data from similar materials<br><br>log Pow: 3.15 (20 °C)<br>pH: 7<br>Remarks: Based on data from similar materials |

**Mobility in soil**

**Components:**

**permethrin (ISO):**

| | | |
|---|---|---|
| Distribution among environmental compartments | : | Remarks: immobile |

**Other adverse effects**

**Product:**

| | | |
|---|---|---|
| Additional ecological information | : | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.<br>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 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.

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

**UNRTDG**

| | | |
|---|---|---|
| UN number | : | UN 3082 |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Permethrin) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | 9 |

**IATA-DGR**

| | | |
|---|---|---|
| UN/ID No. | : | UN 3082 |
| Proper shipping name | : | Environmentally hazardous substance, liquid, n.o.s. (Permethrin) |
| 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. (Permethrin) |
| 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.

**Domestic regulation**

**TDG**

Not regulated as a dangerous good

**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

**NPRI Components** : 1,2,4-trimethylbenzene
xylene
butan-1-ol
cumene
Oxirane, polymer with methyloxirane, mono(nonylphenyl) ether
ethylene oxide
methyloxirane

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

TCSI : On the inventory, or 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.

permethrin (ISO)

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

**Canadian lists**

The following substance(s) is/are subject to a Significant New Activity Notification:
methyloxirane 75-56-9

## SECTION 16. OTHER INFORMATION

**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)

| | | |
|---|---|---|
| CA BC OEL | : | Canada. British Columbia OEL |
| CA QC OEL | : | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
| ACGIH / TWA | : | 8-hour, time-weighted average |
| ACGIH / STEL | : | Short-term exposure limit |
| CA AB OEL / TWA | : | 8-hour Occupational exposure limit |
| CA AB OEL / STEL | : | 15-minute occupational exposure limit |
| CA BC OEL / TWA | : | 8-hour time weighted average |
| CA BC OEL / STEL | : | short-term exposure limit |
| CA QC OEL / TWAEV | : | Time-weighted average exposure value |
| CA QC OEL / STEV | : | Short-term exposure value |

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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End of Material Safety Data Sheet