

1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: IPCO NIATTCO
 Pest Control Product Number: 35640
 Product Use: Agrochemicals/Herbicide
 Manufacturer /Supplier: INTERPROVINCIAL COOPERATIVE LTD.
 945 Marion St.
 Winnipeg, Manitoba
 R2J 0K7
www.ipco.ca
 Effective Date: September 24, 2025
 This product is regulated under authority of the Pest Control Products Act

2: HAZARD IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200:

Flammable liquids	Category 4
Acute toxicity (Oral)	Category 4
Skin irritation	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity - single exposure	Category 3 (Central nervous system)
Aspiration hazard	Category 1

GHS label elements:


Hazard Pictograms:

Signal word: Danger

Hazard statements : H227 Combustible liquid. H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways. H315 Causes skin
 irritation.
 H336 May cause drowsiness or dizziness. H351 Suspected of
 causing cancer.

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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261 Avoid breathing mist or vapours. P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/ protective clothing/ eye protection/ 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.
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.
 P331 Do NOT induce vomiting.
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.
 P362 + P364 Take off contaminated clothing and wash it before reuse.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

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:

None known**3: COMPOSITION AND INFORMATION ON INGREDIENTS****Components**

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
2,4-D 2-ethylhexyl ester	2,4-D 2-ethylhexyl ester	1928-43-4	50.99
fluroxypyr-meptyl (ISO)	fluroxypyr-meptyl (ISO)	81406-37-3	12.17
Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	64742-94-5	>= 25 < 30 * -
Benzenesulfonic acid, mono-C11-13- branched alkyl derivs., calcium salts	Benzenesulfonic acid, mono-C11-13- branched alkyl derivs., calcium salts	68953-96-8	>= 1 - < 3 *
hexan-1-ol	hexan-1-ol	111-27-3	>= 1 - < 3 *
Hydrocarbons, C10, aromatics, <1% naphthalene	Hydrocarbons, C10, aromatics, <1% naphthalene	1189173-42-9	>= 1 - < 3 *

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2,4-D (ISO)	2,4-D (ISO)	94-75-7	$\geq < 0.3^*$ 0.1 -
naphthalene	naphthalene	91-20-3	$\geq < 0.3^*$ 0.1 -

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4: FIRST AID MEASURES

Inhalation:	Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.
Skin contact:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Suitable emergency safety shower facility should be available in work area.
Eye contact:	Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice. Suitable emergency eye wash facility should be available in work area.
Ingestion:	Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed:	None known
Protection of first aiders:	First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Note to physician:	If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. The decision of whether to induce vomiting or not should be made by a physician. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor or going for treatment. Skin contact may aggravate preexisting dermatitis.

5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water spray Alcohol-resistant foam Carbon dioxide (CO ₂)
Unsuitable extinguishing media:	Do not use direct water stream.
Specific hazards arising from the chemical:	Exposure to combustion products may be a hazard to health. Vapours may form explosive mixtures with air. Do not allow run-off from firefighting to enter drains or water courses. Flash back possible over considerable distance.

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Hazardous combustion products:	During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon oxides Hydrogen chloride gas
Specific extinguishing methods:	Remove undamaged containers from fire area if it is safe to do so. Evacuate area. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers.
Further information:	Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Do not use a solid water stream as it may scatter and spread fire. Use a water spray to cool fully closed containers. 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.
Special protective equipment for firefighters:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Ensure adequate ventilation. Use personal protective equipment. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
Environmental precautions:	If the product contaminates rivers and lakes or drains inform respective authorities. Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. Prevent from entering into soil, ditches, sewers, underwater. See Section 12, Ecological Information
Methods and materials for containment and cleaning up:	Clean up remaining materials from spill with suitable absorb- ant. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-pressurization of the container. Keep in suitable, closed containers for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Neutralize with chalk, alkali solution or ammonia. Non-sparking tools should be used. 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). Suppress (knock down) gases/vapours/mists with a water spray jet.

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See Section 13, Disposal Considerations, for additional information.

7: HANDLING AND STORAGE

Precautions for safe handling:	Use with local exhaust ventilation. Avoid formation of aerosol. Provide sufficient air exchange and/or exhaust in work rooms. Do not breathe vapours/dust. Do not smoke. Handle in accordance with good industrial hygiene and safety practice. Avoid exposure - obtain special instructions before use. Smoking, eating and drinking should be prohibited in the application area. Do not get on skin or clothing. Do not breathe vapours or spray mist. Do not swallow. Avoid contact with skin and eyes. Avoid contact with eyes. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
Conditions for safe storage:	Store in a closed container. No smoking. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labelled containers. Store in accordance with the particular national regulations.
Materials to avoid:	Do not store near acids. Strong oxidizing agents. Explosives. Gases
Packaging materials:	Unsuitable material: None known.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters:

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2,4-D 2-ethylhexyl ester	1928-43-4		10 mg/m3	Dow IHG
		TWA	10 mg/m3	CA BC OEL
		STEL	20 mg/m3	CA BC OEL
Solvent naphtha (petroleum), heavy arom.; Kerosine — un- specified	64742-94-5	TWA	100 mg/m3	Corteva OEL
		STEL	300 mg/m3	Corteva OEL
		TWA	200 mg/m3 (total hydrocarbon vapor)	CA AB OEL
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
fluroxypyr-meptyl (ISO)	81406-37-3	TWA	10 mg/m3	Dow IHG
2,4-D (ISO)	94-75-7	TWA	10 mg/m3	CA AB OEL
		TWAEV	10 mg/m3	CA QC OEL
		TWA	10 mg/m3	CA BC OEL
		STEL	20 mg/m3	CA BC OEL
		TWA (Inhalable)	10 mg/m3	ACGIH

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		particulate matter)		
naphthalene	91-20-3	TWA	10 ppm	Dow IHG
		STEL	15 ppm	Dow IHG
		TWA	10 ppm 52 mg/m3	CA AB OEL
		STEL	15 ppm 79 mg/m3	CA AB OEL
		TWA	10 ppm	CA BC OEL
		TWAEV	10 ppm	CA QC OEL
		TWA	10 ppm	ACGIH

Engineering measures: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Personal protective equipment:

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Styrene/butadiene rubber. Examples of acceptable glove barrier materials include: Butyl rubber. Chlorinated polyethylene. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Eye protection: Use safety glasses (with side shields).

Skin and body protection: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Physical State: Liquid

Color: Yellow to orange

Odor: Mild

Odor threshold: No data available

pH: 3.92 (24.8 °C)

Concentration: 1 % Method: pH Electrode (1% aqueous suspension)

Melting point: Not applicable

Freezing point: No data available

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Boiling point:	No data available
Flash point:	73.5 °C Closed Cup
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Water Solubility:	No data available
Partition coefficient:	No data available
Auto ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	13.1 mPa.s at 20 °C 6.38 mPa.s at 40 °C
Explosive properties	No data available
Oxidizing properties	No significant increase (>5C) in temperature.
Molecular weight	No data available
Density	1.0604 g/cm ³ (20 °C) Method: Digital density meter NOTE: The physical data presented above are typical values and should not be construed as a specification.

10: STABILITY AND REACTIVITY

Reactivity:	Not classified as a reactivity hazard.
Chemical Stability:	No decomposition if stored and applied as directed. Stable under normal conditions.
Possibility of hazardous reactions:	Stable under recommended storage conditions. No hazards to be specially mentioned. Vapours may form explosive mixture with air. May form explosive dust-air mixture.
Conditions to avoid:	Heat, flames and sparks.
Incompatible Materials:	Acids Bases Oxidizing agents
Hazardous decomposition products:	Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Carbon oxides Hydrogen chloride gas

11: TOXICOLOGICAL INFORMATION

Acute toxicity Product:

Acute oral toxicity	: LD50 (Rat, female): 1,500 mg/kg Method: OECD Test Guideline 425
Acute inhalation toxicity	: LC50 (Rat, male and female): > 5.28 mg/l Exposure time: 4 h Test atmosphere: dust/mist Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute inhalation toxicity

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Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Components:

2,4-D 2-ethylhexyl ester:

Acute oral toxicity : LD50 (Rat): 896 mg/kg

Acute inhalation toxicity : Remarks: No adverse effects are anticipated from single exposure to vapor.
No adverse effects are anticipated from single exposure to mist.
For respiratory irritation and narcotic effects:
Relevant data not available.

LC50 (Rat): > 5.39 mg/l Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Symptoms: No deaths occurred at this concentration.
Assessment: The substance or mixture has no acute dermal toxicity

fluroxypyr-meptyl (ISO):

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, male and female): > 1.16 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Symptoms: No deaths occurred at this concentration.
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Maximum attainable concentration.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Symptoms: No deaths occurred at this concentration.
Assessment: The substance or mixture has no acute dermal toxicity

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Remarks: For similar material(s):

Acute inhalation toxicity : LC50 (Rat): > 4.688 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: For similar material(s):
Maximum attainable concentration.

Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: For similar material(s):

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

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Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD 401 or equivalent
Symptoms: No deaths occurred at this concentration.
Assessment: The substance or mixture has no acute oral toxicity
Remarks: For similar material(s):

Acute dermal toxicity : LD50 (Rat, male and female): > 1,000 - < 1,600 mg/kg
Method: OECD 402 or equivalent
Remarks: For similar material(s):

hexan-1-ol:

Acute oral toxicity : LD50 (Rat): 3,210 mg/kg
Remarks: Observations in animals include:
May cause central nervous system depression.

Acute inhalation toxicity : LC50 (Rat, male and female): > 21 mg/l

Exposure time: 1 h
Test atmosphere: vapour
Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): 2,530 mg/kg

Hydrocarbons, C10, aromatics, <1% naphthalene:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Remarks: For similar material(s):

Acute inhalation toxicity : LC50 (Rat): > 4.688 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: For similar material(s):
Maximum attainable concentration.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: For similar material(s):

2,4-D (ISO):

Acute oral toxicity : LD50 (Rat): 639 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1.79 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Symptoms: No deaths occurred at this concentration.
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Maximum attainable concentration.

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg

naphthalene:

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

Lethal Dose (Humans): 5 - 15 grams Method:

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Estimated.

Remarks: Excessive exposure may cause hemolysis, thereby impairing the blood's ability to transport oxygen.

Ingestion of naphthalene by humans has caused hemolytic anemia.

Toxicity from swallowing may be greater in humans than in animals.

In humans, symptoms may include: Confusion.

Lethargy.

Muscle spasms or twitches. Convulsions.

Acute inhalation toxicity : Coma.
: Remarks: Excessive exposure may cause irritation to upper respiratory tract (nose and throat).
Excessive exposure may cause lung injury.
Signs and symptoms of excessive exposure may include:
Headache.
Confusion.
Sweating.
Nausea and/or vomiting.

LC50 (Rat): > 0.41 mg/l Exposure time: 4 h

Test atmosphere: vapour

Symptoms: The LC50 value is greater than the Maximum Attainable Concentration.

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 2,500 mg/kg
: Remarks: Human case reports suggest Naphthalene may be absorbed through the skin in toxic amounts, especially in children.

LD50 (Rabbit): > 2,500 mg/kg

Skin corrosion/irritation

Product:

Result : Skin irritation

Components:

fluroxypyr-meptyl (ISO):

Species : Rabbit

Result : No skin irritation

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Result : Skin irritation

hexan-1-ol:

Result : Mild skin irritation

2,4-D (ISO):

Species : Rabbit

Result : No skin irritation

Serious eye damage/eye irritation

Product:

Result : No eye irritation

Components:

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

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Result	: Corrosive
hexan-1-ol:	
Result	: Eye irritation
2,4-D (ISO):	
Species	: Rabbit
Result	: Corrosive

Respiratory or skin sensitization**Product:**

Assessment : Does not cause skin sensitization.

Components:**2,4-D 2-ethylhexyl ester:**

Assessment : May cause sensitization by skin contact.
 Remarks : Has caused allergic skin reactions when tested in guinea pigs.
 Remarks : For respiratory sensitization:
 No relevant data found.

fluroxypyr-meptyl (ISO):

Species : Guinea pig
 Assessment : Does not cause skin sensitization.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Remarks : For similar material(s):
 Did not cause allergic skin reactions when tested in guinea pigs.
 Remarks : For respiratory sensitization:
 No relevant data found.

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Remarks : For skin sensitization:
 For similar material(s):
 Did not cause allergic skin reactions when tested in guinea pigs.
 Remarks : For respiratory sensitization:
 No relevant data found.

hexan-1-ol:

Assessment : Does not cause skin sensitization.
 Remarks : Did not cause allergic skin reactions when tested in guinea pigs.
 Did not cause allergic skin reactions when tested in humans.
 Remarks : For respiratory sensitization:
 No relevant data found.

Hydrocarbons, C10, aromatics, <1% naphthalene:

Remarks : For similar material(s):
 Did not cause allergic skin reactions when tested in guinea pigs.
 Remarks : For respiratory sensitization:
 No relevant data found.

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2,4-D (ISO):

Species : Guinea pig
 Result : May cause sensitization by skin contact.

naphthalene:

Assessment : Does not cause skin sensitization.
 Remarks : Skin contact may cause an allergic skin reaction in a small proportion of individuals.
 Did not cause allergic skin reactions when tested in guinea pigs.
 Remarks : For respiratory sensitization:
 No relevant data found.

Germ cell mutagenicity**Components:****2,4-D 2-ethylhexyl ester:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

fluroxypyr-meptyl (ISO):

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Germ cell mutagenicity - Assessment : For similar material(s);, In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Germ cell mutagenicity - Assessment : For similar material(s);, In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

hexan-1-ol:

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

Hydrocarbons, C10, aromatics, <1% naphthalene:

Germ cell mutagenicity - Assessment : For similar material(s);, In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

2,4-D (ISO):

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were predominantly negative., Animal genetic toxicity studies were predominantly negative.

naphthalene:

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative in some cases and positive in other cases.

Carcinogenicity**Components:****2,4-D 2-ethylhexyl ester:**

Carcinogenicity - Assessment : Did not cause cancer in laboratory animals.

fluroxypyr-meptyl (ISO):

Carcinogenicity - Assessment : For similar active ingredient(s)., Fluroxypyr., Did not cause cancer in laboratory animals.

hexan-1-ol:

Carcinogenicity - Assessment : Did not cause cancer in animal skin painting studies.

Hydrocarbons, C10, aromatics, <1% naphthalene:

Carcinogenicity - Assessment : Contains naphthalene which has caused cancer in some laboratory animals., However, the relevance of this to humans is unknown.

2,4-D (ISO):

Carcinogenicity - Assessment : There is no evidence of carcinogenicity in laboratory animal toxicity studies. While some epidemiological studies report a positive association between 2,4-D exposure and cancer, a weight of evidence analysis of the epidemiology data across studies reveals no indication that 2,4-D causes cancer in humans.

naphthalene:

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

Has caused cancer in some laboratory animals., In humans, there is limited evidence of cancer in workers involved in naphthalene production. Limited oral studies in rats were negative.

Components:**2,4-D 2-ethylhexyl ester:**

Reproductive toxicity - Assessment : Has been toxic to the fetus in laboratory animal tests., There is no evidence that these findings are relevant to humans., Did not cause birth defects in laboratory animals.

fluroxypyr-meptyl (ISO):

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Has been toxic to the fetus in laboratory animals at doses toxic to the mother., Did not cause birth defects in laboratory animals.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. For similar material(s)., Did not cause birth defects or any other fetal effects in laboratory animals.

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Reproductive toxicity - Assessment : For similar material(s)., In animal studies, did not interfere with reproduction. For similar material(s)., Did not cause birth defects or any other fetal effects in laboratory animals.

hexan-1-ol:

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Did not cause birth defects in laboratory animals.

Hydrocarbons, C10, aromatics, <1% naphthalene:

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. For similar material(s)., Did not cause birth defects or any other fetal effects in laboratory animals.

2,4-D (ISO):

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Reproductive toxicity - Assessment : In laboratory animals, excessive doses toxic to the parent animals caused decreased weight and survival of offspring. Has been toxic to the fetus in laboratory animals at doses toxic to the mother., Did not cause birth defects in laboratory animals.

naphthalene:

Reproductive toxicity - Assessment : Available data are inadequate to determine effects on reproduction. Did not cause birth defects in laboratory animals.

STOT - single exposure**Product:**

Assessment : May cause drowsiness or dizziness.

Components:**Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Exposure routes : Inhalation
Assessment : May cause drowsiness or dizziness.

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.

hexan-1-ol:

Exposure routes : Oral
Target Organs : Central nervous system
Assessment : May cause drowsiness or dizziness.

Hydrocarbons, C10, aromatics, <1% naphthalene:

Exposure routes : Inhalation
Assessment : May cause drowsiness or dizziness.

2,4-D (ISO):

Exposure routes : Inhalation
Assessment : May cause respiratory irritation.

naphthalene:

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.

STOT - repeated exposure**Product:**

Assessment : Evaluation of available data suggests that this material is not an STOT-RE toxicant.

Repeated dose toxicity**Components:****2,4-D 2-ethylhexyl ester:**

Remarks : Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

fluroxypyr-meptyl (ISO):

Remarks : Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Remarks : Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

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Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Remarks : For similar material(s):
In animals, effects have been reported on the following organs:
Kidney.

hexan-1-ol:

Remarks : In animals, effects have been reported on the following organs:
Gastrointestinal tract.

Hydrocarbons, C10, aromatics, <1% naphthalene:

Remarks : Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

2,4-D (ISO):

Remarks : In animals, effects have been reported on the following organs:
Liver. Kidney.
Gastrointestinal tract. Muscles.
Observations in animals include: Gastrointestinal irritation.
Vomiting.

naphthalene:

Remarks : Observations in animals include:
Respiratory effects.
Excessive exposure may cause hemolysis, thereby impairing the blood's ability to transport oxygen.
Cataracts and other eye effects have been reported in humans repeatedly exposed to naphthalene vapor or dust.
Ingestion of naphthalene by humans has caused hemolytic anemia.

Aspiration toxicity**Product:**

May be fatal if swallowed and enters airways.

Components:**2,4-D 2-ethylhexyl ester:**

Based on available information, aspiration hazard could not be determined.

fluroxypyr-meptyl (ISO):

Based on physical properties, not likely to be an aspiration hazard.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

May be fatal if swallowed and enters airways.

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Based on physical properties, not likely to be an aspiration hazard.

hexan-1-ol:

May be harmful if swallowed and enters airways.

Hydrocarbons, C10, aromatics, <1% naphthalene:

May be fatal if swallowed and enters airways.

2,4-D (ISO):

Based on physical properties, not likely to be an aspiration hazard.

naphthalene:

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Based on physical properties, not likely to be an aspiration hazard.

12: ECOLOGICAL INFORMATION

Ecotoxicity

Components:

2,4-D 2-ethylhexyl ester:

Toxicity to fish : Remarks: Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

LC50 (tidewater silverside (*Menidia beryllina*)): > 1.9 mg/l
Exposure time: 96 h
Test Type: flow-through test
Method: OECD Test Guideline 203 or Equivalent

Toxicity to daphnia and : EC50 (*Daphnia magna* (Water flea)): > 5 mg/l
other aquatic
invertebrates Exposure time: 48 h
Test Type: static test

Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae/aquatic : EbC50 (*Skeletonema costatum* (marine diatom)): 0.23 mg/l
plants End point: Biomass
Exposure time: 5 d
Test Type: static test

Method: OECD Test Guideline 201 or Equivalent

Toxicity to daphnia and other : NOEC (*Daphnia magna* (Water flea)): 0.015 mg/l
aquatic invertebrates End point: weight
(Chronic toxicity) Exposure time: 21 d
Test Type: flow-through test

Toxicity to terrestrial organ- : Remarks: Material is slightly toxic to birds on an acute basis
isms (LD50 between 501 and 2000 mg/kg)., Material is practically
non-toxic to birds on a dietary basis (LC50 > 5000 ppm).

oral LD50 (*Anas platyrhynchos* (Mallard duck)): 663 mg/kg
bodyweight.

dietary LC50 (*Anas platyrhynchos* (Mallard duck)): > 5620
mg/kg diet.
Exposure time: 5 d

oral LD50 (*Apis mellifera* (bees)): > 100 micrograms/bee

contact LD50 (*Apis mellifera* (bees)): > 100 micrograms/bee

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

fluroxypyr-meptyl (ISO):

Toxicity to fish : Remarks: Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive species).

	LC50 (<i>Oncorhynchus mykiss</i> (rainbow trout)): > 0.225 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 or Equivalent
Toxicity to daphnia and other aquatic invertebrates	: EC50 (<i>Daphnia magna</i> (Water flea)): > 0.183 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202 or Equivalent
Toxicity to algae/aquatic plants	: ErC50 (diatom <i>Navicula</i> sp.): 0.24 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 or Equivalent EbC50 (alga <i>Scenedesmus</i> sp.): > 0.47 mg/l Exposure time: 72 h ErC50 (<i>Selenastrum capricornutum</i> (green algae)): > 1.410 mg/l Exposure time: 96 h ErC50 (<i>Myriophyllum spicatum</i>): 0.075 mg/l Exposure time: 14 d NOEC (<i>Myriophyllum spicatum</i>): 0.031 mg/l Exposure time: 14 d
Toxicity to fish (Chronic toxicity)	: NOEC (Rainbow trout (<i>Oncorhynchus mykiss</i>)): 0.32 mg/l
Toxicity to soil dwelling organisms	: LC50 (<i>Eisenia fetida</i> (earthworms)): > 1,000 mg/kg
Toxicity to terrestrial organisms	: Remarks: Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg)., Material is practically non-toxic to birds on a dietary basis (LC50 > 5000 ppm). oral LD50 (<i>Colinus virginianus</i> (Bobwhite quail)): > 2000 mg/kg bodyweight. Exposure time: 5 d dietary LC50 (<i>Colinus virginianus</i> (Bobwhite quail)): > 5000 mg/kg diet. oral LD50 (<i>Apis mellifera</i> (bees)): > 100 micrograms/bee Exposure time: 48 h contact LD50 (<i>Apis mellifera</i> (bees)): > 100 micrograms/bee Exposure time: 48 h

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Toxicity to fish	: Remarks: For similar material(s): Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested). LC50 (<i>Oncorhynchus mykiss</i> (rainbow trout)): 2 - 5 mg/l Exposure time: 96 h Remarks: For similar material(s):
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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3 - 10 mg/l Exposure time: 48 h
Remarks: For similar material(s):

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 11 mg/l Exposure time: 72 h
Remarks: For similar material(s):

Toxicity to terrestrial organisms : Remarks: Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg).

Ecotoxicology Assessment

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

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Toxicity to fish : Remarks: Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested).

LC50 (zebra fish (Brachydanio rerio)): 31.6 mg/l Exposure time: 96 h
Remarks: For similar material(s):

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 62 mg/l Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): 29 mg/l End point: Growth rate inhibition

Exposure time: 96 h

Remarks: For similar material(s):

Toxicity to fish (Chronic toxicity) : NOEC (Rainbow trout (Salmo gairdneri)): 0.23 mg/l End point: survival

Exposure time: 72 d

Remarks: For similar material(s):

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 1.18 mg/l End point: number of offspring

Exposure time: 21 d

Toxicity to microorganisms : Remarks: For similar material(s):
EC50 (activated sludge): 550 mg/l
End point: Respiration rates.
Exposure time: 3 h
Remarks: For similar material(s):

hexan-1-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 97.2 mg/l
Exposure time: 96 h
Test Type: flow-through test Method:
Other guidelines

Toxicity to daphnia and other aquatic invertebrates	: EC50 (<i>Daphnia magna</i> (Water flea)): 201 mg/l Exposure time: 24 h Test Type: static test Method: OECD Test Guideline 202 or Equivalent
Toxicity to algae/aquatic plants	: ErC50 (<i>Pseudokirchneriella subcapitata</i> (green algae)): 79.7 mg/l End point: Growth rate inhibition Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 or Equivalent
Toxicity to microorganisms	: EC50 (Protozoa): 300.4 mg/l Exposure time: 48 h

Hydrocarbons, C10, aromatics, <1% naphthalene:

Toxicity to fish	: LC50 (<i>Oncorhynchus mykiss</i> (rainbow trout)): 2 - 5 mg/l Exposure time: 96 h Remarks: For similar material(s):
Toxicity to daphnia and other aquatic invertebrates	: EC50 (<i>Daphnia magna</i>): 3 - 10 mg/l Exposure time: 48 h Remarks: For similar material(s):
Toxicity to algae/aquatic plants	: EC50 (<i>Pseudokirchneriella subcapitata</i> (green algae)): 11 mg/l Exposure time: 72 h Remarks: For similar material(s):

Ecotoxicology Assessment 2,4-D

Chronic aquatic toxicity	: Toxic to aquatic life with long lasting effects.
(ISO):	
Toxicity to fish	: LC50 (<i>Pimephales promelas</i> (fathead minnow)): 133 - 320 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	LC50 (<i>Poecilia reticulata</i> (guppy)): 8.4 - 70.7 mg/l Exposure time: 96 h Test Type: static test
	EC50 (<i>Daphnia magna</i> (Water flea)): 25 - 262 mg/l Exposure time: 48 h Test Type: static test
	LC50 (stonefly <i>Pteronarcys californica</i>): 1.6 - 15 mg/l Exposure time: 96 h Test Type: static test
	EC50 (<i>Pseudokirchneriella subcapitata</i> (green algae)): 24.2 mg/l Exposure time: 96 h EC50 (<i>Lemna gibba</i>): 0.58 mg/l Exposure time: 14 d
Toxicity to algae/aquatic plants	: ErC50 (<i>Myriophyllum spicatum</i>): 0.373 mg/l Exposure time: 14 d

		NOEC (<i>Myriophyllum spicatum</i>): 0.0305 mg/l Exposure time: 14 d
Toxicity to fish (Chronic toxicity)	:	NOEC (<i>Pimephales promelas</i> (fathead minnow)): 63.4 mg/l End point: growth Exposure time: 32 d LOEC (<i>Pimephales promelas</i> (fathead minnow)): 100.9 mg/l End point: growth Exposure time: 32 d MATC (Maximum Acceptable Toxicant Level) (<i>Pimephales promelas</i> (fathead minnow)): 80 mg/l End point: growth Exposure time: 32 d
Toxicity to daphnia and: other aquatic invertebrates (Chronic toxicity)		NOEC (<i>Daphnia magna</i> (Water flea)): 46.2 mg/l End point: number of offspring Exposure time: 21 d
Toxicity to soil dwelling: organisms		LC50 (<i>Eisenia fetida</i> (earthworms)): 0.0616 mg/cm ² Exposure time: 48 d NOEC (<i>Eisenia fetida</i> (earthworms)): 50.0 mg/kg Exposure time: 56 d End point: Other Method: Other guidelines GLP: yes
Toxicity to terrestrial organ- isms	:	dietary LC50 (<i>Colinus virginianus</i> (Bobwhite quail)): > 5620 mg/kg diet. oral LD50 (<i>Anas platyrhynchos</i> (Mallard duck)): > 500 mg/kg bodyweight. oral LD50 (<i>Apis mellifera</i> (bees)): 94 micrograms/bee
naphthalene:		
Toxicity to fish	:	Remarks: Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested). LC50 (<i>Oncorhynchus mykiss</i> (rainbow trout)): 0.11 mg/l Exposure time: 96 h
Toxicity to daphnia and: other aquatic invertebrates		EC50 (<i>Daphnia magna</i> (Water flea)): 1.6 - 24.1 mg/l Exposure time: 48 h Test Type: static test
Toxicity to algae/aquatic plants	:	ErC50 (<i>Skeletonema costatum</i> (marine diatom)): 0.4 mg/l Exposure time: 72 h Test Type: Growth rate inhibition
M-Factor (Acute aquatic toxicity)	:	1
Toxicity to fish (Chronic toxicity)	:	NOEC (Other): 0.37 mg/l End point: mortality Exposure time: 40 d Test Type: flow-through
M-Factor (Chronic aquatic toxicity)	:	1

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Ecotoxicology Assessment

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

Persistence and degradability**Components:****2,4-D 2-ethylhexyl ester:**

Biodegradability : Remarks: Biodegradation under aerobic laboratory conditions is below detectable limits (BOD20 or BOD28/ThOD < 2.5%). Biodegradation may occur under aerobic conditions (in the presence of oxygen).

Result: Not biodegradable

Biodegradation: 77 %

Exposure time: 29 d

Method: OECD Test Guideline 301B or Equivalent

Remarks: 10-day Window: Fail

Biochemical Oxygen Demand (BOD) : 0.84 %
Incubation time: 5 d

0.92 %
Incubation time: 10 d

1.32 %
Incubation time: 20 d

fluroxypyr-meptyl (ISO):

Biodegradability : Result: Not biodegradable
Remarks: Material is not readily biodegradable according to OECD/EEC guidelines.

Biodegradation: 32 %

Exposure time: 28 d

Method: OECD Test Guideline 301D or Equivalent

Remarks: 10-day Window: Fail

ThOD : 2.2 kg/kg

Stability in water : Test Type: Hydrolysis
Degradation half life: 454 d

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Biodegradability : Result: Not rapidly biodegradable
Remarks: Material is inherently biodegradable (reaches > 20% biodegradation in OECD test(s) for inherent biodegradability).

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Biodegradability : Biodegradation: 2.9 %
Exposure time: 28 d
Method: OECD Test Guideline 301E or Equivalent
Remarks: 10-day Window: Fail

hexan-1-ol:

Biodegradability : Result: Readily biodegradable.
Remarks: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

Concentration: 2 mg/l
 Biodegradation: 61 %
 Exposure time: 30 d
 Method: OECD Test Guideline 301D or Equivalent
 Remarks: 10-day Window: Pass

Concentration: 5 mg/l
 Biodegradation: 77 %
 Exposure time: 30 d
 Method: OECD Test Guideline 301D or Equivalent
 Remarks: 10-day Window: Pass

Hydrocarbons, C10, aromatics, <1% naphthalene:

Biodegradability : Remarks: Material is inherently biodegradable (reaches > 20% biodegradation in OECD test(s) for inherent biodegradability).

2,4-D (ISO):

Biodegradability : Remarks: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

Biochemical Oxygen Demand (BOD) : 65 %
 Incubation time: 5 d

66 %
 Incubation time: 10 d

Chemical Oxygen Demand (COD) : 85 %
 Incubation time: 20 d
 1.09 kg/kg

Stability in water : Degradation half life (half-life): 2 - 4 d pH: 5

Photodegradation :

naphthalene:

Biodegradability : Remarks: Biodegradation under aerobic static laboratory conditions is high (BOD20 or BOD28/ThOD > 40%).

Biochemical Oxygen Demand (BOD) : 57.000 %
 Incubation time: 5 d
 71.000 %
 Incubation time: 10 d
 71.000 %
 Incubation time: 20 d

ThOD : 3.00 kg/kg

Photodegradation : Test Type: Half-life (indirect photolysis)
 Sensitizer: OH radicals
 Concentration: 1,500,000 1/cm³
 Rate constant: 2.16E-11 cm³/s
 Method: Estimated.

Bioaccumulative potential Components:

2,4-D 2-ethylhexyl ester:

Bioaccumulation : Bioconcentration factor (BCF): 10

Partition coefficient: n-octanol/water : log Pow: 0.83 (25 °C)
 pH: 7
 Method: Measured
 Remarks: For similar active ingredient(s).
 2,4-Dichlorophenoxyacetic acid.
 Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

fluroxypyr-meptyl (ISO):

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
 Bioconcentration factor (BCF): 26
 Method: Measured

Partition coefficient: n-octanol/water :
 log Pow: 5.04
 Method: Measured
 Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Partition coefficient: n-octanol/water : Remarks: For similar material(s):
 Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Partition coefficient: n-octanol/water : log Pow: 4.6
 Method: OECD Test Guideline 107 or Equivalent
 Remarks: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

hexan-1-ol:

Partition coefficient: n-octanol/water : log Pow: 1.8
 Method: Measured
 Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Hydrocarbons, C10, aromatics, <1% naphthalene:

Partition coefficient: n-octanol/water : Remarks: No data available for this product.
 For similar material(s):
 Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).

2,4-D (ISO):

Bioaccumulation : Species: Fish
 Bioconcentration factor (BCF): 10
 Exposure time: 3 d

Partition coefficient: n-octanol/water : log Pow: -0.83
 Method: Measured
 Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

naphthalene:

Bioaccumulation : Species: Fish
 Bioconcentration factor (BCF): 40 - 300
 Exposure time: 28 d
 Method: Measured

Partition coefficient: n-octanol/water : log Pow: 3.3
 Method: Measured
 Remarks: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

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Mobility in soil**Components:****2,4-D 2-ethylhexyl ester:**

Distribution among environmental compartments : Remarks: Calculation of meaningful sorption data was not possible due to very rapid degradation in the soil.
For the degradation product:
2,4-Dichlorophenoxyacetic acid.
Expected to be relatively immobile in soil (Koc > 5000).

fluroxypyr-meptyl (ISO):

Distribution among environmental compartments : Koc: 6200 - 43000
Remarks: Expected to be relatively immobile in soil (Koc > 5000).

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Distribution among environmental compartments : Remarks: No relevant data found.

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Distribution among environmental compartments : Remarks: No relevant data found.

hexan-1-ol:

Distribution among environmental compartments : Koc: 8.3
Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).

Hydrocarbons, C10, aromatics, <1% naphthalene:

Distribution among environmental compartments : Remarks: No relevant data found.

2,4-D (ISO):

Distribution among environmental compartments : Koc: 5 - 212
Method: Measured
Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).
Stability in soil : Test Type: Photolysis Dissipation time: 68 d
Method: Estimated.

Test Type: aerobic degradation Dissipation time: 1.7 - 4 d
Method: Measured

Test Type: anaerobic degradation Dissipation time: 66.2 d
Method: Measured

naphthalene:

Distribution among environmental compartments : Koc: 240 - 1300
Method: Measured
Remarks: Potential for mobility in soil is medium (Koc between 150 and 500).

Other adverse effects**Components:****2,4-D 2-ethylhexyl ester:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not

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considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

fluroxypyr-meptyl (ISO):

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

hexan-1-ol:

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

Hydrocarbons, C10, aromatics, <1% naphthalene:

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

2,4-D (ISO):

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

naphthalene:

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

13: DISPOSAL CONSIDERATIONS

Disposal methods: If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area

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regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

14: TRANSPORT INFORMATION

TDG: Classification below is only applicable when shipped by vessel and is not applicable when shipped by road or rail only.

UN/ID No: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (2,4-D Ester, Fluroxypyr-methyl)

Hazard class: 9

Packaging Group: III

Marine Pollutant: 2,4-D Ester, Fluroxypyr-methyl

Classification for SEA transport (IMO-IMDG):

UN/ID No: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (2,4-D Ester, Fluroxypyr-methyl)

Hazard class: 9

Packaging Group: III

Marine Pollutant: 2,4-D Ester, Fluroxypyr-methyl

Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code: Consult IMO regulations before transporting ocean bulk

Classification for AIR transport (IATA/ICAO):

UN/ID No: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (2,4-D Ester, Fluroxypyr-methyl)

Hazard class: 9

Packaging Group: III

Further information: Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

For Canadian Ground transportation TDG Exemption: 1.45.1 Marine Pollutants (Part 3, Documentation, and Part 4, Dangerous Goods Safety Marks, do not apply if they are in transport solely on land by road vehicle or railway vehicle).

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

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

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DSL : This product contains components that are not listed on the Canadian DSL nor NDSL.

Pest Control Products Act (PCPA) Registration Number: 35640

Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product. This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act (PCPA). There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control products label:

PCPA Label Hazard Communications:

Read the label and booklet before using. Keep out of reach of children.

CAUTION POISON SKIN IRRITANT

This product is toxic to: Non-target terrestrial plants Aquatic organisms

16: OTHER INFORMATION

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
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
Corteva OEL	:	Corteva Occupational Exposure Limit
Dow IHG	:	Dow Industrial Hygiene Guideline
ACGIH / TWA	:	8-hour, time-weighted average
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 / TWA EV	:	Time-weighted average exposure value
Corteva OEL / STEL	:	Short term exposure limit
Corteva OEL / TWA	:	Time weighted average
Dow IHG / TWA	:	Time Weighted Average (TWA):
Dow IHG / STEL	:	Short term exposure limit
Dow IHG / TWA	:	Time weighted average

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; ECx - Concentration associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; 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; NOEC - Non-Observed Effective Concentration; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; (Q)SAR - (Quantitative) Structure Activity Relationship; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SDS - Safety Data Sheet; UN - United Nations.

DSL - Domestic substances List. WHMIS - Workplace Hazardous Materials Information System.

Revision Date/Reason: September 24, 2025/ New SDS

Notice: The enclosed information is supplied as a customer service and is provided in good faith. Although it has been based on data drawn from sources deemed to be

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