

SAFETY DATA SHEET

according to the Hazardous Products Regulations



FH-20 HERBICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 06/15/2026
1.1	07/28/2026	50003196	Date of first issue: 06/15/2026

This Safety Data Sheet adheres to the standards and regulatory requirements of Canada and may not meet the regulatory requirements in other countries.

SECTION 1. IDENTIFICATION

Product identifier

Product name FH-20 HERBICIDE

Other means of identification

Product code 50003196

Product Registration Number PCP #36067

Recommended use of the chemical and restrictions on use

Recommended use Herbicide

Restrictions on use Use as recommended by the label.

Manufacturer or supplier's details

Manufacturer FMC Corporation
2929 WALNUT ST
PHILADELPHIA PA 19104
USA
Web: <https://ag.fmc.com/ca/en>
SDS-Info@fmc.com

Supplier Address FMC of Canada Limited
6755 Mississauga Road, Suite 204
Mississauga, ON L5N 7Y2
Canada

Emergency telephone

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

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

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

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Skin corrosion/irritation	: Category 2
Serious eye damage/eye irritation	: Category 2
Reproductive toxicity	: Category 2
Combustible dust	: Category 1
Specific target organ toxicity - single exposure (Inhalation)	: Category 3 (Respiratory Tract)
Hazardous to the aquatic environment - acute hazard	: Category 1
Long-term (chronic) aquatic hazard	: Category 1

GHS label elements

Hazard pictograms



Signal Word : WARNING

Hazard Statements : May form combustible dust concentrations in air.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H335 May cause respiratory irritation.
H361d Suspected of damaging the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P261 Avoid breathing dust.
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.

Response:
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal:

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P501 Dispose of contents/container in accordance with local regulations.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	Common Name/Synonym	CAS No./Unique ID	Concentration (% w/w)	Trade secret
SAFLUFENACIL	Saflufenacil	372137-35-4*	70	-
ammonium sulphate	Ammonium sulfate	7783-20-2*	$\geq 10 - \leq 30$	-
Alkylated Naphthalene Sulfonate Sodium Salt	Alkylated Naphthalene Sulfonate Sodium Salt	68425-94-5*	$\geq 1 - \leq 7$	-
sodium diisopropylnaphthalenesulphonate	sodium diisopropylnaphthalenesulphonate	1322-93-6*	$\geq 1 - < 3$	-
docusate sodium	Sodium diocyl sulfosuccinate	577-11-7*	$\geq 0.1 - \leq 1$	-

* Indicates that the identifier is a CAS No.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Show this material safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : Move to fresh air.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.

In case of skin contact : Take off all contaminated clothing immediately.
Wash contaminated clothing before re-use.
Wash off immediately with plenty of water for at least 15 minutes.
Call a physician if irritation develops or persists.

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

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- Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Do not induce vomiting without medical advice.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
- General Symptoms : Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far.
- Symptoms After Inhalation : None known.
- Symptoms After Skin Contact : None known.
- Symptoms After Eye Contact : None known.
- Symptoms After Swallowing : None known.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
Avoid inhalation, ingestion and contact with skin and eyes.
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Dry chemical, CO₂, water spray or regular foam.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet
Do not spread spilled material with high-pressure water streams.
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Ammonia
Sulfur oxides
Sulphuric acid

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- Fire may produce irritating, corrosive and/or toxic gases.
- Further information : 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 fire-fighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Avoid dust formation.
Never return spills in original containers for re-use.
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Only qualified personnel equipped with suitable protective equipment may intervene.
For disposal considerations see section 13.
- 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 : Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Avoid formation of respirable particles.
Do not breathe vapors/dust.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : 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.
Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage : No decomposition if stored and applied as directed.

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age stability

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

- | | | |
|--------------------------|---|---|
| Respiratory protection | : | No personal respiratory protective equipment normally required. |
| 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 |
| Skin and body protection | : | Dust impervious protective suit
Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Protective measures | : | Plan first aid action before beginning work with this product.
Always have on hand a first-aid kit, together with proper instructions.
Ensure that eye flushing systems and safety showers are located close to the working place.
Wear suitable protective equipment. |
| Hygiene measures | : | Wash hands before breaks and at the end of workday. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- | | | |
|---|---|--|
| Physical state | : | solid |
| Form | : | solid |
| Color | : | light brown |
| Odor | : | odorless |
| Odor Threshold | : | No data available |
| pH | : | 4.0 - 6.0 (25 °C))
Concentration: 10 % |
| Melting point/freezing point | : | ca. 189.9 - 193.4 °C |
| Initial boiling point and boiling range | : | No data available |
| Flash point | : | Not applicable |
| Evaporation rate | : | Not applicable |
| Self-ignition | : | 371 °C
Method: Tested according to Directive 92/69/EEC. |
| Upper explosion limit / Upper | : | not highly flammable |

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flammability limit	
Lower explosion limit / Lower flammability limit	: not highly flammable
Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: No data available
Density	: ca. 1.61 g/cm ³ (20 °C)
Bulk density	: 540 - 600 kg/m ³ (20 °C)
Solubility(ies)	
Water solubility	: dispersible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.
Self-Accelerating decomposition temperature (SADT)	: < 75 °C
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Explosive properties	: Based on available data, the classification criteria are not met.
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Particle characteristics	
Particle size	: No data available
Particle Size Distribution	: D10 = < 0.9 µm D50 = 2.4 µm D90 = < 5.4 µm

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 hazardous reactions when stored and handled according to prescribed instructions. No decomposition if stored and applied as directed.
Conditions to avoid	: Avoid dust formation. Protect from frost, heat and sunlight. Avoid extreme temperatures. Avoid shock and friction. Heat, flames and sparks. Open flame Electrical spark
Incompatible materials	: Avoid strong acids, bases, and oxidizers.
Hazardous decomposition products	: No hazardous decomposition products are known.

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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion
Inhalation
Eye contact
Skin contact

Acute toxicity

Harmful if swallowed, in contact with skin or if inhaled.

Product:

Acute oral toxicity	: LD50 Oral (Rat): > 2,000 mg/kg
Acute inhalation toxicity	: LC50: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	: LD50 Dermal (Rat): > 2,000 mg/kg

Components:

ammonium sulphate:

Acute oral toxicity	: LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 423 LD50 (Rat): 4,250 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	: LC0 (Rat, male): 0.0035 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 433
Acute dermal toxicity	: LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 434

Alkylated Naphthalene Sulfonate Sodium Salt:

Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg
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sodium diisopropyl naphthalenesulphonate:

Acute oral toxicity	: LD50 (Rat, female): > 300 - 2,000 mg/kg Method: OECD Test Guideline 423
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docusate sodium:

Acute oral toxicity	: LD50 (Rat, male and female): > 2,100 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral toxicity
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Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit, male): > 10,000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Product:

Species : Rabbit
Assessment : Not classified as irritant
Result : No skin irritation

Components:

ammonium sulphate:

Species : Rabbit
Exposure time : 20 h
Method : Draize Test
Result : slight irritation

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

Alkylated Naphthalene Sulfonate Sodium Salt:

Remarks : No data available

sodium diisopropylnaphthalenesulphonate:

Species : reconstructed human epidermis (RhE)
Method : OECD Test Guideline 431
Result : Corrosive after 4 hours or less of exposure

docusate sodium:

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

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Product:

Species : Rabbit
Result : No eye irritation
Assessment : Not classified as irritant

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Components:

ammonium sulphate:

Species	:	Rabbit
Result	:	slight irritation

Alkylated Naphthalene Sulfonate Sodium Salt:

Result	:	Eye irritation
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sodium diisopropylnaphthalenesulphonate:

Species	:	Bovine cornea
Result	:	Irreversible effects on the eye
Method	:	OECD Test Guideline 437

docosate sodium:

Species	:	Rabbit
Result	:	Risk of serious damage to eyes.
Method	:	OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization

Based on available data, the classification criteria are not met.

Respiratory sensitization

Based on available data, the classification criteria are not met.

Product:

Test Type	:	Modified Buehler Test
Species	:	Guinea pig
Assessment	:	Not classified as irritant
Result	:	Animal test did not cause sensitization by skin contact.

Components:

ammonium sulphate:

Test Type	:	Maximization Test
Routes of exposure	:	Dermal
Species	:	Guinea pig
Result	:	Not a skin sensitizer.

sodium diisopropylnaphthalenesulphonate:

Test Type	:	Direct Peptide Reactivity Assay (DPRA)
Method	:	OECD Test Guideline 442C
Result	:	Does not cause skin sensitization.

docosate sodium:

Routes of exposure	:	Skin contact
Species	:	Humans

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Result : Does not cause skin sensitization.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Components:

ammonium sulphate:

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

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male)
Application Route: Intraperitoneal injection
Exposure time: 4 d
Result: negative

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

sodium diisopropylnaphthalenesulphonate:

Genotoxicity in vitro : Test Type: reverse mutation assay
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Remarks: No data available

docusate sodium:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Remarks: No data available

Carcinogenicity

Based on available data, the classification criteria are not met.

Components:

ammonium sulphate:

Species : Rat, male
Application Route : Oral

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Exposure time	:	2 y
Dose	:	564, 1288 mg/kg food
Method	:	OECD Test Guideline 453
Result	:	negative
Species	:	Rat, female
Application Route	:	Oral
Exposure time	:	2 y
Dose	:	649, 1371 mg/kg food
Method	:	OECD Test Guideline 453
Result	:	negative
Carcinogenicity - Assessment	:	Weight of evidence does not support classification as a carcinogen

Reproductive toxicity

Based on available data, the classification criteria are not met.

Components:

ammonium sulphate:

Effects on fertility	:	Species: Rat Application Route: Oral Dose: 250, 750, 1500 mg/kg General Toxicity Parent: LOAEL: 250 mg/kg body weight Fertility: NOAEL: 1,500 mg/kg body weight Method: OECD Test Guideline 422 Result: No effects on fertility and early embryonic development were detected.
Effects on fetal development	:	Species: Rat Application Route: Oral Dose: 250, 750, 1500 mg/kg Developmental Toxicity: NOAEL: 1,500 mg/kg body weight Method: OECD Test Guideline 415 Result: negative
Reproductive toxicity - Assessment	:	Weight of evidence does not support classification for reproductive toxicity

docusate sodium:

Effects on fertility	:	Test Type: reproductive and developmental toxicity study Species: Rat, male and female Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative
Effects on fetal development	:	Test Type: reproductive and developmental toxicity study Species: Rat Duration of Single Treatment: 6 - 15 d Method: OECD Test Guideline 414 Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses

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STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Components:

ammonium sulphate:

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

Repeated dose toxicity

Components:

ammonium sulphate:

Species : Rat, female
NOAEL : 284 mg/kg
Application Route : Oral
Exposure time : 1 y
Dose : 48, 284, 1490 mg/kg
Method : OECD Test Guideline 453
Symptoms : Liver effects, kidney effects

Species : Rat, male
NOAEL : 256 mg/kg
Application Route : Oral
Exposure time : 1 y
Dose : 42, 256, 1527 mg/kg
Method : OECD Test Guideline 453
Symptoms : Liver effects, kidney effects

Species : Rat
NOAEC : 0.3 mg/l
Application Route : Inhalation
Exposure time : 14 d
Number of exposures : 8 h/d
Dose : 0.3 mg/L
Symptoms : No adverse effects.

sodium diisopropylnaphthalenesulphonate:

Remarks : No data available

docosate sodium:

Species : Rat, male and female
NOAEL : 750 mg/kg
Application Route : Oral
Exposure time : 90 d
Method : OECD Test Guideline 408

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Aspiration toxicity

Based on available data, the classification criteria are not met.

Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): 0.1157 mg/l
Exposure time: 72 h

EC10 (Pseudokirchneriella subcapitata (algae)): 0.0387 mg/l
Exposure time: 72 h

Components:

ammonium sulphate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 53 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 169 mg/l
Exposure time: 48 h

EC50 (Daphnia): 121.7 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Chlorella vulgaris (Fresh water algae)): 2,700 mg/l
Exposure time: 18 h

EC50 (Chlorella vulgaris (Fresh water algae)): 1,605 mg/l
Exposure time: 5 d

Toxicity to fish (Chronic toxicity) : EC10 (Lepomis macrochirus (Bluegill sunfish)): 5.29 mg/l
Exposure time: 30 d
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Hyalella azteca (Amphipod)): 3.12 mg/l
Exposure time: 70 d
Test Type: semi-static test

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Toxicity to microorganisms : EC50 (activated sludge): 1,618 mg/l
Exposure time: 0.5 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

Alkylated Naphthalene Sulfonate Sodium Salt:

Toxicity to fish : LC50 (Zebra fish): > 10 - 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

EC10 (Pseudokirchneriella subcapitata (green algae)): > 100 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) : EC10 (Daphnia magna (Water flea)): > 10 - 100 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
Remarks: Based on data from similar materials

sodium diisopropylnaphthalenesulphonate:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 72 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (algae)): 10 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

docosate sodium:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 49 mg/l
Exposure time: 96 h

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Method: Regulation (EC) No. 440/2008, Annex, C.1

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 15.2 mg/l
Exposure time: 48 h
Method: Regulation (EC) No. 440/2008, Annex, C.2

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 82.5 mg/l
Exposure time: 72 h
Method: Regulation (EC) No. 440/2008, Annex, C.3

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Daphnia magna (Water flea)): 9 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211

Toxicity to microorganisms : EC50 (Pseudomonas putida): 164 mg/l
Exposure time: 16.5 h
Method: DIN 38 412 Part 8

EC10 (Pseudomonas putida): 122 mg/l
Exposure time: 16.5 h

Persistence and degradability

Components:

ammonium sulphate:

Biodegradability : Result: Not biodegradable

Alkylated Naphthalene Sulfonate Sodium Salt:

Biodegradability : Result: Not readily biodegradable.
Remarks: Based on data from similar materials

sodium diisopropylnaphthalenesulphonate:

Biodegradability : Inoculum: activated sludge, non-adapted
Result: Not readily biodegradable.
Biodegradation: 2 %
Exposure time: 21 d
Method: OECD Test Guideline 301D

docosate sodium:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 91 %
Exposure time: 28 d

Bioaccumulative potential

Components:

ammonium sulphate:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

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Partition coefficient: n-octanol/water : log Pow: -5.1 (25 °C)

log Pow: 0.48 (25 °C)

sodium diisopropylnaphthalenesulphonate:

Partition coefficient: n-octanol/water : log Pow: > 2.6 (20 °C)

docusate sodium:

Bioaccumulation : Remarks: Not applicable

Partition coefficient: n-octanol/water : log Pow: 1.998 (20 °C)

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

Endocrine disrupting properties

No data available

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.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Saflufenacil)

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Class : 9
Subsidiary risk : ENVIRONM.
Packing group : III
Labels : 9 (ENVIRONM.)
Environmentally hazardous : yes

IATA-DGR

UN/ID No. : UN 3077
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.
(Saflufenacil)

Class : 9
Packing group : III
Labels : Miscellaneous
Packing instruction (cargo aircraft) : 956
Packing instruction (passenger aircraft) : 956
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S. (Saflufenacil)
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

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(Saflufenacil)
Class : 9
Packing group : III
Labels : 9
ERG Code : 171
Marine pollutant : yes

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

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

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TW TCSI	: On the inventory, or in compliance with the inventory
US TSCA	: Product contains substance(s) not listed on TSCA inventory.
AU AIIC	: Not in compliance with the inventory
CA. DSL	: This product contains chemical substance(s) exempt from CEPA DSL Inventory requirements. It is regulated as a pesticide subject to Pest Control Products Act (PCPA) requirements. Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.
JP ENCS	: Not in compliance with the inventory
JP ISHL	: Not in compliance with the inventory
KR KECI	: Not in compliance with the inventory
PH PICCS	: Not in compliance with the inventory
CN IECSC	: Not in compliance with the inventory
NZ NZIoC	: Not in compliance with the inventory
TH TECI	: Not in compliance with the inventory

Canadian lists

No substances are subject to a Significant New Activity Notification.

No substances are subject to CEPA Section 84 Ministerial Conditions.

PMRA/PCPA Information

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. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label., Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product

CAUTION

Causes eye irritation Causes skin irritation Avoid breathing dust or spray mist. Avoid contact with skin, eyes and clothing. Harmful if absorbed through the skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Very toxic to aquatic life with long lasting effects.

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SECTION 16. OTHER INFORMATION

Full text of other abbreviations

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 Standardization; 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 Organization 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; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; 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, Authorization 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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CA / EN

Person who prepared the SDS:

FMC Corporation

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End of Material Safety Data Sheet