

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

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### SECTION 1. IDENTIFICATION

#### Product identifier

**Product name** Quicksilver Herbicide

#### Other means of identification

**Product code** 50000428

**Chemical nature** Mixture

**Product Registration Number** 30142

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

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

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

#### Details of the supplier of the safety data sheet

**Manufacturer** FMC of Canada Ltd  
6755 Mississauga Road, Suite 204  
Mississauga, ON L5N 7Y2  
Canada  
Phone (AgHotline): 1-833-FMC-PPAC (1-833-362-7722),  
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)

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### SECTION 2. HAZARDS IDENTIFICATION

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

Eye irritation : Category 2B

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

Carcinogenicity : Category 2

Aspiration hazard : Category 1

### GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H304 May be fatal if swallowed and enters airways.  
H320 Causes eye irritation.  
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.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P331 Do NOT induce vomiting.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.

### 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

Very toxic to aquatic life.  
Very toxic to aquatic life with long lasting effects.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version 1.3      Revision Date: 01/11/2024      SDS Number: 50000428      Date of last issue: 06/28/2022  
Date of first issue: 02/18/2022

### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	64742-94-5	$\geq 10 - < 30$ *
carfentrazone-ethyl (ISO)	carfentrazone-ethyl (ISO)	128639-02-1	$\geq 10 - < 30$ *
2-methylnaphthalene	2-methylnaphthalene	91-57-6	$\geq 5 - < 10$ *
1-methylnaphthalene	1-methylnaphthalene	90-12-0	$\geq 5 - < 10$ *
propane-1,2-diol	propane-1,2-diol	57-55-6	$\geq 1 - < 5$ *
naphthalene	naphthalene	91-20-3	$\geq 0.1 - < 1$ *

\* 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 : Move to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- 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 : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and : May be fatal if swallowed and enters airways.  
Causes eye irritation.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

delayed	Suspected of causing cancer.
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.
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. 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	: Use personal protective equipment. Ensure adequate ventilation. 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	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version 1.3      Revision Date: 01/11/2024      SDS Number: 50000428      Date of last issue: 06/28/2022  
Date of first issue: 02/18/2022

### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapors/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
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.  
Observe label precautions.  
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), heavy arom.; Kerosine — unspecified	64742-94-5	TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	CA AB OEL
		TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	ACGIH
carfentrazone-ethyl (ISO)	128639-02-1	TWA (Inhalable particulate matter)	1 mg/m <sup>3</sup>	ACGIH
2-methylnaphthalene	91-57-6	TWA	0.5 ppm	CA BC OEL
		TWAEV	0.5 ppm	CA QC OEL
1-methylnaphthalene	90-12-0	TWA	0.5 ppm	CA BC OEL
		TWAEV	0.5 ppm	CA QC OEL
propane-1,2-diol	57-55-6	TWA (Vapour and aerosols)	50 ppm 155 mg/m <sup>3</sup>	CA ON OEL
		TWA (aerosol)	10 mg/m <sup>3</sup>	CA ON OEL

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version 1.3      Revision Date: 01/11/2024      SDS Number: 50000428      Date of last issue: 06/28/2022  
Date of first issue: 02/18/2022

naphthalene	91-20-3	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
		STEV	15 ppm 79 mg/m3	CA QC OEL
		TWA	10 ppm	ACGIH

### 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 : Impervious clothing  
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 : 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

- Physical state : liquid
- Color : off-white
- Odor : solvent-like
- Odor Threshold : No data available
- pH : 4.29

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

---

Melting point/freezing point : No data available

Initial boiling point and boiling range : No data available

Flash point : 104 °C

Evaporation rate : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 8.8 lb/gal

Bulk density : No data available

Solubility(ies)  
Water solubility : No data available

Solubility in other solvents : No data available

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

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity  
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Particle size : No data available

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

### 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	:	None reasonably foreseeable. No decomposition if stored and applied as directed.
Conditions to avoid	:	Avoid extreme temperatures.
Incompatible materials	:	Avoid strong acids, bases, and oxidizers.
Hazardous decomposition products	:	No decomposition if used as directed.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity	:	LD50 (Rat): 4,077 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 6.31 mg/l Exposure time: 4 h Test atmosphere: dust/mist  Acute toxicity estimate: 0.5041 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Acute dermal toxicity	:	LD50 (Rat): > 4,000 mg/kg

#### Components:

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

Acute oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 401 Remarks: Based on data from similar materials
Acute inhalation toxicity	:	LC50 (Rat): > 4.688 mg/l Exposure time: 4 h Test atmosphere: vapor Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity



# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

### carfentrazone-ethyl (ISO):

- Acute oral toxicity : LD50 (Rat, female): 5,143 mg/kg  
Method: FIFRA 81.01  
Symptoms: Tremors  
GLP: yes
- Acute inhalation toxicity : LC50 (Rat, male and female): > 5.09 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: EPA OPP 81 - 3  
Symptoms: Tremors, chromodacryorrhea, nasal discharge  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: no mortality
- Acute dermal toxicity : LD50 (Rat, male and female): > 4,000 mg/kg  
Method: US EPA Test Guideline OPP 81-2  
Assessment: The component/mixture is minimally toxic after single contact with skin.  
Remarks: no mortality

### 2-methylnaphthalene:

- Acute oral toxicity : LD50 (Rat): 1,630 mg/kg

### 1-methylnaphthalene:

- Acute oral toxicity : LD50 (Rat): 1,840 mg/kg

### propane-1,2-diol:

- Acute oral toxicity : LD50 (Rat, male and female): 22,000 mg/kg
- Acute inhalation toxicity : LC0 (Rabbit): 31.7 mg/l  
Exposure time: 2 h  
Test atmosphere: vapor  
Remarks: no mortality
- Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### naphthalene:

- Acute oral toxicity : LD50 (Mouse, female): 710 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC0 (Rat, male and female): > 0.4 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

tion toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 16,000 mg/kg  
Method: OECD Test Guideline 402

### Skin corrosion/irritation

Not classified based on available information.

### Product:

Species : Rabbit  
Result : Mild skin irritation

Remarks : May cause skin irritation and/or dermatitis.

### Components:

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

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

#### **carfentrazone-ethyl (ISO):**

Species : Rabbit  
Assessment : Not classified as irritant  
Method : US EPA Test Guideline OPP 81-5  
Result : No skin irritation

#### **2-methylnaphthalene:**

Result : Skin irritation

#### **1-methylnaphthalene:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Mild skin irritation

#### **propane-1,2-diol:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

#### **naphthalene:**

Species : Rabbit  
Result : No skin irritation

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

---

### Serious eye damage/eye irritation

Causes eye irritation.

#### **Product:**

Result : Mild eye irritation

Remarks : Vapors may cause irritation to the eyes, respiratory system and the skin.

#### **Components:**

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

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

##### **carfentrazone-ethyl (ISO):**

Species : Rabbit  
Result : slight irritation  
Assessment : Not classified as irritant  
Method : EPA OPP 81-4  
GLP : yes

##### **1-methylnaphthalene:**

Species : Rabbit  
Result : No eye irritation

##### **propane-1,2-diol:**

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

##### **naphthalene:**

Species : Rabbit  
Result : No eye irritation

### Respiratory or skin sensitization

#### **Skin sensitization**

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

#### **Product:**

Result : Not a skin sensitizer.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

### Components:

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

Test Type	:	Maximization Test
Species	:	Guinea pig
Result	:	Not a skin sensitizer.
Remarks	:	Based on data from similar materials

#### **carfentrazone-ethyl (ISO):**

Test Type	:	Local lymph node assay (LLNA)
Species	:	Guinea pig
Method	:	US EPA Test Guideline OPP 81-6
Result	:	Does not cause skin sensitization.

#### **propane-1,2-diol:**

Test Type	:	Maximization Test
Species	:	Guinea pig
Result	:	negative

#### **naphthalene:**

Test Type	:	Maximization Test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitization.

### **Germ cell mutagenicity**

Not classified based on available information.

### Components:

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

Genotoxicity in vitro	:	Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
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Genotoxicity in vivo	:	Test Type: Bone marrow chromosome aberration. Species: Rat Application Route: inhalation (vapor) Result: negative
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#### **carfentrazone-ethyl (ISO):**

Genotoxicity in vitro	:	Test Type: reverse mutation assay Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
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	:	Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation
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# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

	Method: OECD Test Guideline 476 Result: negative
Genotoxicity in vivo	: Test Type: Micronucleus test Species: Mouse (male and female) Result: negative
Germ cell mutagenicity - Assessment	: No genotoxic potential.
<b>2-methylnaphthalene:</b>	
Genotoxicity in vitro	: Test Type: sister chromatid exchange assay Test system: Human lymphocytes Result: negative
	Test Type: Ames test Result: negative
Germ cell mutagenicity - Assessment	: In vitro tests did not show mutagenic effects
<b>1-methylnaphthalene:</b>	
Genotoxicity in vitro	: Test Type: sister chromatid exchange assay Test system: Human lymphocytes Result: negative
	Test Type: Ames test Result: negative
Germ cell mutagenicity - Assessment	: In vitro tests did not show mutagenic effects
<b>propane-1,2-diol:</b>	
Genotoxicity in vitro	: Test Type: reverse mutation assay Result: negative
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Species: Mouse Result: negative
<b>naphthalene:</b>	
Genotoxicity in vitro	: Test Type: reverse mutation assay Result: negative
Genotoxicity in vivo	: Test Type: Micronucleus test Species: Mouse Application Route: Intraperitoneal injection Result: negative

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

### Carcinogenicity

Suspected of causing cancer.

#### Product:

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

#### Components:

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

Species	: Rat, male and female
Application Route	: inhalation (vapor)
Exposure time	: 12 month(s)
NOAEC	: 1.8 mg/l
Result	: negative
Remarks	: Based on data from similar materials

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

##### **carfentrazone-ethyl (ISO):**

Species	: Rat, male and female
Application Route	: Oral
Exposure time	: 104 weeks
NOAEL	: 3 - 9 mg/kg bw/day
Result	: negative

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

##### **2-methylnaphthalene:**

Species	: Mouse, male
Application Route	: Oral
Exposure time	: 81 w
Dose	: 750, 1500 ppm
LOAEL	: 750 ppm
Result	: equivocal
Symptoms	: Tumor
Target Organs	: Lungs
Remarks	: Based on data from similar materials

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

##### **1-methylnaphthalene:**

Species	: Mouse, male
Application Route	: Oral
Exposure time	: 81 w
Dose	: 750, 1500 ppm
LOAEL	: 750 ppm
Result	: equivocal

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

Symptoms : Tumor  
Target Organs : Lungs

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

### propane-1,2-diol:

Species : Rat  
Application Route : Oral  
Exposure time : 2 Years  
Result : negative

### naphthalene:

Species : Rat  
Application Route : Inhalation  
Exposure time : 2 Years  
Result : positive

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

### Reproductive toxicity

Not classified based on available information.

### Components:

#### carfentrazone-ethyl (ISO):

Effects on fertility : Test Type: Multi-generation study  
Species: Rat, male and female  
Application Route: Ingestion  
Fertility: NOEL: 4,000 ppm  
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat, female  
Application Route: Oral  
General Toxicity Maternal: NOEL: 100 mg/kg bw/day  
Embryo-fetal toxicity.: NOEL: 600 mg/kg bw/day  
Result: negative

Test Type: Embryo-fetal development  
Species: Rabbit, female  
Application Route: Oral  
General Toxicity Maternal: NOEL: 150 mg/kg bw/day  
Embryo-fetal toxicity.: NOEL: > 300 mg/kg bw/day  
Result: negative

Reproductive toxicity - Assessment : Animal testing showed no reproductive toxicity.

### propane-1,2-diol:

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Mouse  
Application Route: Oral  
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 414  
Result: Animal testing did not show any effects on fertility.  
Remarks: Based on data from similar materials

### **naphthalene:**

Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Application Route: Inhalation  
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Oral  
Method: OECD Test Guideline 414  
Result: Embryotoxic effects and adverse effects on the off-spring were detected only at high maternally toxic doses

### **STOT-single exposure**

Not classified based on available information.

#### **Components:**

##### **carfentrazone-ethyl (ISO):**

Remarks : No significant adverse effects were reported

##### **2-methylnaphthalene:**

Assessment : May cause respiratory irritation., May cause drowsiness or dizziness.

##### **1-methylnaphthalene:**

Assessment : May cause respiratory irritation., May cause drowsiness or dizziness.

### **STOT-repeated exposure**

Not classified based on available information.

#### **Components:**

##### **carfentrazone-ethyl (ISO):**

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



# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

### Repeated dose toxicity

#### Components:

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

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

##### **carfentrazone-ethyl (ISO):**

Species	: Mouse, male and female
NOAEL	: 1000 ppm
LOAEL	: 4000 ppm
Application Route	: Oral
Exposure time	: 90 days
Target Organs	: Blood

Species	: Dog, male and female
NOEL	: 150 mg/kg
LOAEL	: 500 mg/kg
Application Route	: Oral
Exposure time	: 90 days
Target Organs	: Blood

Species	: Dog, male and female
NOEL	: 50 mg/kg
NOAEL	: 150 mg/kg
LOAEL	: 500 mg/kg
Application Route	: Oral
Exposure time	: 12 months
GLP	: yes
Target Organs	: Blood

##### **2-methylnaphthalene:**

Species	: Mouse, female
LOAEL	: 50.3 mg/kg
Application Route	: Oral
Exposure time	: 81 w
Dose	: 0, 50.3, 107.6 mg/kg-d
Symptoms	: pulmonary effects, immune system effects

Species	: Mouse
Application Route	: Dermal
Exposure time	: 30 w
Number of exposures	: 2/w
Dose	: 119 mg/kg-application
Symptoms	: pulmonary effects
Remarks	: Based on data from similar materials

##### **1-methylnaphthalene:**

Species	: Mouse, female
---------	-----------------

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

LOAEL	:	50.3 mg/kg
Application Route	:	Oral
Exposure time	:	81 w
Dose	:	0, 50.3, 107.6 mg/kg-d
Symptoms	:	pulmonary effects, immune system effects
Remarks	:	Based on data from similar materials

Species	:	Mouse
Application Route	:	Dermal
Exposure time	:	30 w
Number of exposures	:	2/w
Dose	:	119 mg/kg-application
Symptoms	:	pulmonary effects
Remarks	:	Based on data from similar materials

### propane-1,2-diol:

Species	:	Rat, male and female
NOAEL	:	1,700 mg/kg
Application Route	:	Oral
Exposure time	:	2 Years

Species	:	Rat, male and female
NOAEL	:	1,000 mg/kg
LOAEL	:	160 mg/kg
Application Route	:	Inhalation
Exposure time	:	90 Days

### Aspiration toxicity

May be fatal if swallowed and enters airways.

#### Product:

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.

#### Components:

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

May be fatal if swallowed and enters airways.

##### **carfentrazone-ethyl (ISO):**

The substance does not have properties associated with aspiration hazard potential.

##### **1-methylnaphthalene:**

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.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

### Experience with human exposure

#### Components:

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

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

##### **2-methylnaphthalene:**

Skin contact : Target Organs: Skin  
Symptoms: Irritation

##### **1-methylnaphthalene:**

Skin contact : Target Organs: Skin  
Symptoms: Irritation

### Neurological effects

#### Components:

##### **carfentrazone-ethyl (ISO):**

No neurotoxicity observed in animal studies.

### Further information

#### Product:

Remarks : Solvents may degrease the skin.

#### Components:

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

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

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

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

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 1.4 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): 1 - 3 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EL50 (Daphnia magna (Water flea)): 0.89 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

Toxicity to microorganisms : LL50 (Tetrahymena pyriformis): 677.9 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition

### **carfentrazone-ethyl (ISO):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2.55 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 9.8 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: No toxicity at the limit of solubility.

Toxicity to algae/aquatic plants : EC50 (Anabaena flos-aquae (cyanobacterium)): 0.012 mg/l  
Exposure time: 72 h

NOEC (algae): 0.001 mg/l  
Exposure time: 96 h

EC50 (Lemna gibba (gibbous duckweed)): 0.0057 mg/l  
Exposure time: 14 d

EC50 (Selenastrum capricornutum (green algae)): 0.0133 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (Selenastrum capricornutum (green algae)): 0.00933 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to fish (Chronic tox- : NOEC (Oncorhynchus mykiss (rainbow trout)): 22 µg/l

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

icity)	Exposure time: 89 d Test Type: Early Life-Stage Method: OECD Test Guideline 210 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia): 35 mg/l End point: reproduction Exposure time: 21 d Method: US EPA Test Guideline OPPTS 850.1300 Remarks: Information given is based on data obtained from similar product.
Toxicity to microorganisms	: NOEC (activated sludge): 1,000 mg/l Test Type: Respiration inhibition Method: OECD Test Guideline 209
Toxicity to soil dwelling organisms	: NOEC (Eisenia fetida (earthworms)): 820 mg/kg  Method: OECD Test Guideline 216 Remarks: No significant adverse effect on Nitrogen mineralization.  Method: OECD Test Guideline 217 Remarks: No significant adverse effect on Carbon mineralization.
Toxicity to terrestrial organisms	: LD50 (Anas platyrhynchos (Mallard duck)): > 5,620 ppm End point: Acute oral toxicity Remarks: Dietary  LD50 (Colinus virginianus (Bobwhite quail)): 2,250 mg/kg End point: Acute oral toxicity  NOEL (Colinus virginianus (Bobwhite quail)): 1000 ppm End point: Reproduction Test  LD50 (Apis mellifera (bees)): > 200 µg/bee End point: Acute oral toxicity  LD50 (Apis mellifera (bees)): > 200 µg/bee End point: Acute contact toxicity

### Ecotoxicology Assessment

Toxicity Data on Soil : Harmful to the soil environment.

### 2-methylnaphthalene:

Toxicity to fish : LC50 (Fish): 2 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other : EC50 (Daphnia): 1.49 mg/l

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

aquatic invertebrates

End point: Immobilization  
Test Type: static test

### 1-methylnaphthalene:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.42 mg/l  
End point: Immobilization  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 12 mg/l  
Exposure time: 14 d  
Test Type: static test

### propane-1,2-diol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : (Mysidopsis bahia (opossum shrimp)): 18,800 mg/l  
Exposure time: 96 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 34,100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 13,020 mg/l  
Exposure time: 7 d

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 20,000 mg/l  
Exposure time: 18 h

### naphthalene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.6 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.16 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Skeletonema costatum (marine diatom)): 0.4 - 0.5 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus kisutch (coho salmon)): 0.37 mg/l  
Exposure time: 40 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia pulex (Water flea)): 0.59 mg/l  
Exposure time: 125 d

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

ic toxicity)

Toxicity to microorganisms : IC50 (Bacteria): 29 mg/l  
Exposure time: 24 h

### Persistence and degradability

#### Components:

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

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 58.6 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

##### **carfentrazone-ethyl (ISO):**

Biodegradability : Result: Not readily biodegradable.

##### **1-methylnaphthalene:**

Biodegradability : Result: Not readily biodegradable.

##### **propane-1,2-diol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 23.6 %  
Exposure time: 64 d  
Method: OECD Test Guideline 306

##### **naphthalene:**

Biodegradability : Result: Inherently biodegradable.  
Biodegradation: 67 %  
Exposure time: 12 d

### Bioaccumulative potential

#### Components:

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

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

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

##### **carfentrazone-ethyl (ISO):**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 176  
Exposure time: 28 d  
Method: OECD Test Guideline 305E

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 3.7 (20 °C)

### 2-methylnaphthalene:

Partition coefficient: n-octanol/water : log Pow: 3.86

### 1-methylnaphthalene:

Partition coefficient: n-octanol/water : log Pow: 3.87

### propane-1,2-diol:

Partition coefficient: n-octanol/water : log Pow: -1.07

### naphthalene:

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 168

Partition coefficient: n-octanol/water : log Pow: 3.7

## Mobility in soil

### Components:

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

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

#### **carfentrazone-ethyl (ISO):**

Distribution among environmental compartments : Remarks: The substance/mixture and its soil metabolites have a potential for being mobile, but were not detected in a field leaching study.

Koc: 866, log Koc: 2.93

## 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.



# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

- |                        |   |  |
|------------------------|---|--|
| Waste from residues    | : | The product should not be allowed to enter drains, water courses or the soil.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Send to a licensed waste management company. |
| Contaminated packaging | : | Empty remaining contents.<br>Dispose of as unused product.<br>Do not re-use empty containers.  |

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

- |                           |   |   |
|---------------------------|---|---|
| UN number                 | : | UN 3082   |
| Proper shipping name      | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Carfentrazone-ethyl, Naphthalene) |
| Class                     | : | 9   |
| Packing group             | : | III   |
| Labels                    | : | 9   |
| Environmentally hazardous | : | yes   |

##### IATA-DGR

- |  |   |   |
|--|---|---|
| UN/ID No.                                | : | UN 3082   |
| Proper shipping name                     | : | Environmentally hazardous substance, liquid, n.o.s.<br>(Carfentrazone-ethyl, Naphthalene) |
| 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.<br>(Carfentrazone-ethyl, Naphthalene) |
| 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.

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

### Domestic regulation

#### TDG

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (, Naphthalene)
Class	:	9
Packing group	:	III
Labels	:	9
ERG Code	:	171
Marine pollutant	:	yes(, Naphthalene)

#### 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** : naphthalene

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

TCSI	:	Not in compliance with the inventory
TSCA	:	Product contains substance(s) not listed on TSCA inventory.
AICS	:	Not in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.  ETHYL (RS)-2-CHLORO-3-{2-CHLORO-5-[4-(DIFLUOROMETHYL)-4,5-DIHYDRO-3-METHYL-5-OXO-1H-1,2,4-TRIAZOL-1-YL]-4-FLUOROPHENYL}PROPIONATE  Polyalkylene oxide block copolymer  Polyethylene glycol polyester
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
NZIoC	:	Not in compliance with the inventory

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

### Canadian lists

No substances are subject to a Significant New Activity Notification.

## SECTION 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 ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for air-borne contaminants
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 ON OEL / TWA	:	Time-Weighted Average Limit (TWA)
CA QC OEL / TWA EV	:	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 Recom-

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## Quicksilver Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: 06/28/2022
1.3	01/11/2024	50000428	Date of first issue: 02/18/2022

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mendations 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