

## Product Name: PrecisionPac® DB-8454 Herbicide (PCP #28894)

Specification ID#: 50000066

PrecisionPac® DB-8454 Herbicide is considered a mechanical mixture of three (3) individual products.

Attached are the component product SDS which make up Express FX Herbicide:

Express® 50 SG MUP PCP # 28176

SDS Date: **10/28/2022** 

Specification ID#: 50000038

Thifensulfuron 50 SG MUP PCP # 28809

SDS Date: **05/12/2022** 

Specification ID#: 50001033

Dry Dicamba MUP PCP # 28735

SDS Date: 08/04/2022

Specification ID#: 50000129

Since Express® 50 SG MUP, Thifensulfuron 50 SG MUP and Dry Dicamba MUP do not interact chemically when combined, the mixture can therefore be assumed to have the same properties and hazards as the individual components. Please review the attached SDS, for a full and complete understanding of the hazards associated with each product before use.

### Manufacturer/Distributor:

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

### **Telephone Numbers:**

Product Information: 1-833-362-7722

Medical Emergency: 1-800-331-3148 (USA & Canada)

**Preparation Date: 12/09/2022** 

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# EXPRESS(R) 50 SG MUP



Version **Revision Date:** SDS Number: Date of last issue: -

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**SECTION 1. IDENTIFICATION** 

**Product identifier** 

**Product name** EXPRESS(R) 50 SG MUP

Other means of identification

**Product code** 50000038

**Chemical nature** Herbicide

**Product Registration Num-**

PCP# 28176

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

<u>Canada</u>

**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

Skin sensitization : Category 1

Specific target organ toxicity : Category 2

- repeated exposure

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**GHS** label elements

Hazard pictograms :





Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or re-

peated exposure.

Precautionary Statements : Prevention:

P272 Contaminated work clothing should not be allowed out of

the workplace.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water. P314 Get medical advice/ attention if you feel unwell.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P362 + P364 Take off contaminated clothing and wash it before

reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

None known.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Herbicide

### Components

Chemical name	Common	CAS-No.	Concentration (% w/w)
	Name/Synonym		
tribenuron-methyl (ISO)	tribenuron-	101200-48-0	50
	methyl (ISO)		50

#### **SECTION 4. FIRST AID MEASURES**

General advice : Remove victim from exposure and then have him lie down in

the recovery position.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

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Keep at rest.

Keep warm and in a quiet place.

If inhaled If unconscious, place in recovery position and seek medical

If symptoms persist, call a physician.

In case of skin contact If on clothes, remove clothes.

In case of skin contact

If on skin, rinse well with water.

Wash off immediately with soap and plenty of water.

If skin irritation persists, call a physician.

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

> 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.

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. Take victim immediately to hospital.

Most important symptoms

and effects, both acute and

delayed

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated

exposure.

Notes to physician Treat symptomatically.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod-

ucts

Nitrogen oxides (NOx)

Sulfur oxides Carbon oxides

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.

for fire-fighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

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#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emer-

gency procedures

Use personal protective equipment.

Avoid dust formation. Avoid breathing dust.

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

Avoid dust formation.

Provide appropriate exhaust ventilation at places where dust

is formed.

Advice on safe handling : Avoid formation of respirable particles.

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 ap-

plication area.

Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Conditions for safe storage

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 stor-

age stability

No decomposition if stored and applied as directed.

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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection : In case of dust exposure wear suitable personal respiratory

protection and protective suit.

Hand protection

Material : Wear chemical resistant gloves, such as barrier laminate,

butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

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.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : solid, granules

Color : light brown

Odor : mild

pH : 8.4 - 9.4 (20 °C)

Concentration: 10 g/l

In a 1% aqueous dispersion

Flash point : not determined

Flammability (solid, gas) : Not highly flammable

Relative vapor density : not determined

Bulk density : 640 kg/m3packed

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Solubility(ies)

Water solubility : soluble

Decomposition temperature : Not available for this mixture.

Viscosity

Viscosity, dynamic : not determined

Explosive properties : Not explosive

#### **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 reac-

tions

Dust may form explosive mixture in air.

No decomposition if stored and applied as directed.

Conditions to avoid : dust formation

moisture

Heat, flames and sparks.

Incompatible materials : Strong acids and strong bases

Strong oxidizing agents

Hazardous decomposition

products

Stable under recommended storage conditions.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Acute toxicity**

Not classified based on available information.

#### **Product:**

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

Method: Fixed Dose Method

GLP: yes

Acute inhalation toxicity : Acute toxicity estimate: > 10 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

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

Method: OECD Test Guideline 402

GLP: yes

#### Skin corrosion/irritation

Not classified based on available information.

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**Product:** 

Species : Rabbit

Assessment : Not classified as irritant
Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

Remarks : May cause skin irritation and/or dermatitis.

#### Serious eye damage/eye irritation

Not classified based on available information.

**Product:** 

Species : Rabbit

Result : No eye irritation

Assessment : Not classified as irritant
Method : OECD Test Guideline 405

GLP : yes

Remarks : Product dust may be irritating to eyes, skin and respiratory

system.

## Respiratory or skin sensitization

#### Skin sensitization

May cause an allergic skin reaction.

### Respiratory sensitization

Not classified based on available information.

**Product:** 

Species : Guinea pig

Assessment : The product is a skin sensitizer, sub-category 1B.

Method : Maximization Test

Result : The product is a skin sensitizer, sub-category 1B.

### Germ cell mutagenicity

Not classified based on available information.

**Product:** 

Genotoxicity in vitro : Remarks: The product contains no ingredients known to be

mutagenic.

### Carcinogenicity

Not classified based on available information.

**Product:** 

Remarks : The product contains no ingredients known to be carcinogen-

ic.

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### Reproductive toxicity

Not classified based on available information.

**Product:** 

Effects on fertility : Remarks: The product contains no ingredients found to have

adverse effects on reproduction.

## STOT-single exposure

Not classified based on available information.

**Product:** 

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

organ toxicant, single exposure.

### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

**Product:** 

Assessment : May cause damage to organs through prolonged or repeated

exposure.

## Repeated dose toxicity

#### **Components:**

### tribenuron-methyl (ISO):

Species : Rabbit LOAEL : 80 mg/kg

Target Organs : Thyroid, Nervous system

Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 2.

Remarks : Increased mortality or reduced survival

## **Aspiration toxicity**

Not classified based on available information.

## **Components:**

### tribenuron-methyl (ISO):

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

#### **Further information**

#### **Product:**

Remarks : No data available

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#### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

**Product:** 

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia): > 120 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

EbC50 (Pseudokirchneriella subcapitata (green algae)):

0.0162 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

EC50 (Lemna gibba (duckweed)): 0.00652 mg/l

End point: Frond Exposure time: 7 d

Method: US EPA Test Guideline OPP 122-2 & 123-2

### **Components:**

tribenuron-methyl (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 738 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Crustaceans): > 320 mg/l

Exposure time: 48 h

EC50 (Daphnia magna (Water flea)): > 894 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 0.0208

mg/l

Exposure time: 120 h

EC50 (Lemna gibba (duckweed)): 0.00424 mg/l

Exposure time: 14 d

Toxicity to fish (Chronic tox-

icity)

NOEC (Cyprinodon variegatus (sheepshead minnow)): 114

mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

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NOEC (Oncorhynchus mykiss (rainbow trout)): 560 mg/l

Exposure time: 21 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 41 mg/l

Exposure time: 21 d

Toxicity to soil dwelling or-

ganisms

NOEC (Eisenia fetida (earthworms)): 3.2 mg/kg

Exposure time: 56 d

Toxicity to terrestrial organ-

isms

LD50 (Colinus virginianus (Bobwhite quail)): > 2,250 mg/kg

LD50 (Colinus virginianus (Bobwhite quail)): > 5,620 ppm

Remarks: Dietary

LD50 (Anas platyrhynchos (Mallard duck)): > 5,620 ppm

Remarks: Dietary

LD50 (Apis mellifera (bees)): > 98.4 µg/bee

Exposure time: 48 h

End point: Acute contact toxicity

LD50 (Apis mellifera (bees)): > 9.1 µg/bee

Exposure time: 48 h

End point: Acute oral toxicity

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Very toxic to aquatic life.

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

Persistence and degradability

**Components:** 

tribenuron-methyl (ISO):

Biodegradability : Biodegradation: 29.4 %

Exposure time: 28 d

**Bioaccumulative potential** 

**Components:** 

tribenuron-methyl (ISO):

Bioaccumulation : Bioconcentration factor (BCF): < 1

Remarks: Does not bioaccumulate.

Partition coefficient: n-

octanol/water

log Pow: -0.38

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### Mobility in soil

### **Product:**

Distribution among environmental compartments

Remarks: Under normal conditions the active ingredient/s is/are of high to intermediate mobility in soil. There is a potential for leaching to groundwater.

#### **Components:**

### tribenuron-methyl (ISO):

Distribution among environmental compartments

Remarks: Under normal conditions the active ingredient/s is/are of high to intermediate mobility in soil. There is a potential for leaching to groundwater.

#### Other adverse effects

### **Product:**

Additional ecological information

 Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water

mark.

Do not contaminate water when cleaning equipment or dis-

posing of equipment washwaters or rinsate.

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

#### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal 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.

(Tribenuron-methyl)

Class : 9

Subsidiary risk : ENVIRONM.

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Packing group : III

Labels : 9 (ENVIRONM.)

**IATA-DGR** 

UN/ID No. : UN 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(Tribenuron-methyl)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction (passen- : 956

ger aircraft)

Environmentally hazardous : yes

**IMDG-Code** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

956

(Tribenuron-methyl)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **Domestic regulation**

#### **TDG**

Not regulated as a dangerous good

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### **SECTION 15. REGULATORY INFORMATION**

## 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.

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

METHYL 2-[4-METHOXY-6-METHYL-1,3,5-TRIAZIN-2-YL(METHYL)CARBAMOYLSULFAMOYL]BENZOATE

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D-Glucopyranose, 4-O-.beta.-D-galactopyranosyl-, monohy-

drate

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

TECI: Not in compliance with the inventory

#### **Canadian lists**

No substances are subject to a Significant New Activity Notification.

#### **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 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-

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mendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

#### Disclaimer

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CA / EN

#### Prepared by:

**FMC** Corporation

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End of Material Safety Data Sheet

## Thifensulfuron 50 SG MUP



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#### **SECTION 1. IDENTIFICATION**

**Product identifier** 

Product name Thifensulfuron 50 SG MUP

Other means of identification

Product code 50001033

Chemical nature Mixture

**Product Registration Num-**

ber

PCP # 28809

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

**Emergency telephone** 

For leak, fire, spill or accident emergencies, call: 1800 / 424-9300 (CHEMTREC - U.S.A.) 1703 / 741-5970 (CHEMTREC - International)

1 703 / 741-3970 (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

Not a hazardous substance or mixture.

**GHS** label elements

Not a hazardous substance or mixture.

Other hazards

None known.

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**





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Chemical nature : Mixture

## Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
thifensulfuron-methyl (ISO)	thifensulfuron- methyl (ISO)	79277-27-3	50
sodium carbonate	sodium car- bonate	497-19-8	>= 10 - < 30 *

Actual concentration or concentration range is withheld as a trade secret

### **SECTION 4. FIRST AID MEASURES**

General advice : If you feel unwell, seek medical advice (show the label where

possible).

Do not leave the victim unattended. Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

If inhaled : Remove person to fresh air. If signs/symptoms continue, get

medical attention.

In case of skin contact : Get medical attention if irritation develops and persists.

Wash clothing before reuse.

Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water.

In case of eye contact : If eye irritation persists, consult a specialist.

Keep eye wide open while rinsing.

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least

15 minutes.

If swallowed : If swallowed, call a poison control center or doctor immediate-

ly.

Rinse mouth with water.

Most important symptoms and effects, both acute and

delayed

None known.

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

Hazardous combustion prod: :

ucts

Carbon oxides Sulfur oxides

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Hazardous combustion products

Further information : Prevent fire extinguishing water from contaminating surface

water or the ground water system.

If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contami-

nated.

Use a water spray to cool fully closed containers. Dike runoff from fire control activities for later disposal. If it can be safely done, move undamaged containers away

from the fire.

Special protective equipment:

for fire-fighters

Exposure to decomposition products may be a hazard to

health.

Use personal protective equipment.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec-:

tive equipment and emer-

gency procedures

Ensure adequate ventilation.

Keep people away from and upwind of spill/leak.

Use personal protective equipment.

Do not touch or walk through the spilled material.

If it can be safely done, stop the leak. For disposal considerations see section 13.

Mark the contaminated area with signs and prevent access to

unauthorized personnel.

Never return spills in original containers for re-use.

Environmental precautions : If the product contaminates rivers and lakes or drains inform

respective authorities.

Clean contaminated floors and objects thoroughly while ob-

serving environmental regulations.

Prevent further leakage or spillage if safe to do so.

Do not allow uncontrolled discharge of product into the envi-

ronment.

Do not allow contact with soil, surface or ground water.

Do not let product enter drains.

Methods and materials for containment and cleaning up

Clean contaminated surface thoroughly.

Sweep and collect the leakage in a sealed container.

Sweep up and collect the leakage in a dry sealed container. Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Never return spills in original containers for re-use.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Use only in area provided with appropriate exhaust ventilation.

Prepare the working solution as given on the label(s) and/or

the user instructions.

Take care to avoid waste and spillage when weighing, loading

and mixing the product.

Wear personal protective equipment.

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Conditions for safe storage : Keep container closed when not in use.

Keep containers tightly closed in a dry, cool and well-

ventilated place.

Store in original container.

Store in a place accessible by authorized persons only.

### **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 re-

quired.

Hand protection

Material : Wear chemical resistant gloves, such as barrier laminate,

butyl rubber or nitrile rubber.

Eye protection : Always wear eye protection when the potential for inadvertent

eye contact with the product cannot be excluded.

Ensure that eyewash stations and safety showers are close

to the workstation location.

Wear safety glasses with side shields or goggles.

Skin and body protection : Remove and wash contaminated clothing before re-use.

Wear appropriate chemical resistant clothing to prevent skin contact depending on the extent of exposure. During most normal work situations where exposure to the material cannot be avoided for a limited time span, waterproof pants and apron of chemical resistant material or coveralls of polyethylene (PE) will be sufficient. Coveralls of PE must be discarded after use if contaminated. In cases of excessive or prolonged exposure, coveralls of barrier laminate may be

required.

Protective measures : Wear suitable protective equipment.

Personal protective equipment comprising: suitable protective

gloves, safety goggles and protective clothing

In the context of professional plant protection use as recommended, the end user must refer to the label and the instruc-

tions for use.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : granules

Color : light brown

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Odor : mild

pH : 9.2 (25 °C)

Concentration: 10 g/l

Melting point/range : ca. 182 °C

Flash point : Not applicable

Flammability (solid, gas) : The product is not flammable.

Lower explosion limit / Lower

flammability limit

0.1 - 0.25 g/l

Bulk density : 696 kg/m3packed

Solubility(ies)

Water solubility : soluble

Viscosity

Viscosity, dynamic : No data available

Explosive properties : Not explosive

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No hazards to be specially mentioned.

Stable under recommended storage conditions.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reac-

tions

None reasonably foreseeable.

Conditions to avoid : Protect from frost, heat and sunlight.

Incompatible materials : No data available

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Acute toxicity**

Not classified based on available information.

**Product:** 

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

Acute inhalation toxicity : LC50 (Rat): > 5.3 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

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

#### Skin corrosion/irritation

Not classified based on available information.

**Product:** 

Species : Rabbit

Assessment : Not classified as irritant

Result : No skin irritation

### Serious eye damage/eye irritation

Not classified based on available information.

**Product:** 

Species : Rabbit

Result : No eye irritation

Assessment : Not classified as irritant

## Respiratory or skin sensitization

### Skin sensitization

Not classified based on available information.

## Respiratory sensitization

Not classified based on available information.

**Product:** 

Species : Guinea pig

Assessment : Not a skin sensitizer.

Result : Animal test did not cause sensitization by skin contact.

## Germ cell mutagenicity

Not classified based on available information.

## **Components:**

### thifensulfuron-methyl (ISO):

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

Assessment cell mutagen.

sodium carbonate:

Genotoxicity in vitro : Test Type: reverse mutation assay

Method: Mutagenicity (Salmonella typhimurium - reverse mu-

tation assay) Result: negative

Remarks: Based on data from similar materials

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

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Assessment cell mutagen.

Carcinogenicity

Not classified based on available information.

**Components:** 

thifensulfuron-methyl (ISO):

Carcinogenicity - Assess- : Weight of evidence does not support classification as a car-

ment cinogen

Reproductive toxicity

Not classified based on available information.

**Components:** 

sodium carbonate:

Effects on fetal development : Species: Rat

Application Route: Oral

Dose: 2.45, 11.4, 52.9, 245 milligram per kilogram

Duration of Single Treatment: 6 - 15 d

General Toxicity Maternal: NOAEL: > 245 mg/kg body weight

Teratogenicity: NOAEL: > 245 mg/kg body weight

Result: negative

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

**Components:** 

sodium carbonate:

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

organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

sodium carbonate:

Species : Rat, male and female

NOAEL : > 0.01 mg/kg

Application Route : inhalation (dust/mist/fume)

Test atmosphere : dust/mist

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#### **Aspiration toxicity**

Not classified based on available information.

#### **Further information**

**Product:** 

Remarks : Information presented in section 11 conforms to the require-

ments of the Hazardous Products Regulations (HPR) and WHMIS 2015. See Section 15 for applicable information conforming to the requirements of the Pest Management Regula-

tory Agency (PMRA).

#### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

**Product:** 

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 120 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Lemna gibba (duckweed)): 0.00130 mg/l

Exposure time: 14 d

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg

Exposure time: 14 d

Method: OECD Test Guideline 207

Remarks: Information source: Internal study report

## **Components:**

thifensulfuron-methyl (ISO):

Toxicity to fish : LC50 (Salmo gairdneri): 100 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 470 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

IC50 (green algae): 0.0159 mg/l

Exposure time: 72 h

EC50 (Lemna minor (duckweed)): 1.3 μg/l

Toxicity to fish (Chronic tox-

icity)

NOEC (Salmo gairdneri): 250 mg/l

Exposure time: 28 d

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

NOEC (Daphnia magna (Water flea)): 100 mg/l

Exposure time: 21 d

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ic toxicity)

Toxicity to soil dwelling or-

ganisms

: LC50 (Eisenia fetida (earthworms)): > 2,000 mg/kg

Toxicity to terrestrial organ-

isms

LD50 (Colinus virginianus (Bobwhite quail)): > 5,620 ppm

LD50 (Anas platyrhynchos (Mallard duck)): > 2,510 mg/kg

LD50 (Apis mellifera (bees)): > 7.1 µg/bee

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Very toxic to aquatic life.

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

sodium carbonate:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 300 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Ceriodaphnia (water flea)): 200 mg/l

Exposure time: 48 h

Test Type: semi-static test

Persistence and degradability

**Components:** 

sodium carbonate:

Biodegradability : Remarks: The methods for determining biodegradability are

not applicable to inorganic substances.

Bioaccumulative potential

**Components:** 

thifensulfuron-methyl (ISO):

Bioaccumulation : Remarks: Does not bioaccumulate.

sodium carbonate:

Bioaccumulation : Remarks: Does not bioaccumulate.

Mobility in soil

**Components:** 

thifensulfuron-methyl (ISO):

Distribution among environ-

mental compartments

Remarks: Mobile in soils

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#### Other adverse effects

**Product:** 

Additional ecological infor-

mation

Environmental hazards

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water

mark.

Do not contaminate water when cleaning equipment or dis-

posing of equipment washwaters or rinsate.

Do not apply where/when conditions favour runoff.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Send to a licensed waste management company.

Uncontrolled disposal or recycling of this packaging is not permitted and can be dangerous. Do not contaminate ponds, waterways or ditches with chemical or used container.

Do not dispose of waste into sewer.

Dispose of as hazardous waste in compliance with local and

national regulations.

Contaminated packaging : Dispose of contents/ container to a local hazardous waste

disposal facility.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

Rinse empty containers with water and use the rinse-water to

prepare the working solution.

Packaging that is not properly emptied must be disposed of as

the unused product.

#### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

**UNRTDG** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Thifensulfuron-methyl)

Class : 9

Subsidiary risk : ENVIRONM.

Packing group : III

Labels : 9 (ENVIRONM.)

IATA-DGR

UN/ID No. : UN 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(Thifensulfuron-methyl)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo : 956

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aircraft)

Packing instruction (passen: 956

ger aircraft)

Environmentally hazardous : yes

**IMDG-Code** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Thifensulfuron-methyl)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## **Domestic regulation**

#### **TDG**

Not regulated as a dangerous good

## Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### **SECTION 15. REGULATORY INFORMATION**

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.

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

METHYL 3-{[(4-METHOXY-6-METHYL-1,3,5-TRIAZIN-2-

YL)CARBAMOYL]SULFAMOYL}THIOPHENE-2-

CARBOXYLATE

D-Glucopyranose, 4-O-.beta.-D-galactopyranosyl-, monohy-

drate

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

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IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

TECI: Not in compliance with the inventory

#### **Canadian lists**

No substances are subject to a Significant New Activity Notification.

#### **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 Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate: NOM - Official Mexican Norm: NTP - National Toxicology Program: NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

#### **Disclaimer**

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. You can contact FMC Corporation to insure that this document is the most current available from FMC Corporation. No warranty of fit-

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CA / EN

Prepared by:

**FMC** Corporation

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End of Material Safety Data Sheet

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**SECTION 1. IDENTIFICATION** 

**Product identifier** 

Product name Dry Dicamba MUP

Other means of identification

Product code 50000129

Chemical nature Mixture

**Product Registration Num-**

ber

28735

Recommended use of the chemical and restrictions on use

**Recommended use** Can be used for production of herbicides 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

<u>Canada</u>

**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

Acute toxicity (Oral) : Category 4

Combustible dust (Inhalation) (Lungs)

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**GHS** label elements

Hazard pictograms

Signal Word : Warning

Hazard Statements : H302 Harmful if swallowed.

H332 Harmful if inhaled.

May form combustible dust concentrations in air.

Precautionary Statements : Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

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.

Response:

P304 + P340 IF INHALED: Remove victim to fresh air and keep

at rest in a position comfortable for breathing.

P301 + P312 + P330 IF SWALLOWED: Call a doctor if you feel

unwell. Rinse mouth.

Disposal:

P501 Dispose of contents and container to an approved waste

disposal plant.

Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : Mixture

#### Components

Chemical name		CAS-No.	Concentration (% w/w)
	Name/Synonym		
Dicamba, present as sodium salt	sodium 3,6- dichloro-o-	1982-69-0	70
	anisate		

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Show this 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.

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Oxygen or artificial respiration if needed.

In case of skin contact : Take off all contaminated clothing immediately.

Wash contaminated clothing before re-use.

Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.

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 : Do NOT induce vomiting.

If accidentally swallowed obtain immediate medical attention.

Rinse mouth with water.

Most important symptoms and effects, both acute and

delayed

Harmful if inhaled. Harmful if swallowed.

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.

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a

potential dust explosion hazard.

Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of

dust, e.g. on floors and ledges.

Hazardous combustion prod: :

ucts

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. Use a water spray to cool fully closed containers.

Special protective equipment :

for fire-fighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Avoid dust formation. Avoid breathing dust.

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. Pick up and arrange disposal without creating dust.

Never return spills in original containers for re-use. Do not create a powder cloud by using a brush or compressed

air.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against :

fire and explosion

Avoid dust formation.

Provide appropriate exhaust ventilation at places where dust

is formed.

Advice on safe handling : Avoid formation of respirable particles.

Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication 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 stor-

age stability

No decomposition if stored and applied as directed.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

Respiratory protection : In case of dust exposure wear suitable personal respiratory

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protection and protective suit.

Hand protection

Material : Wear chemical resistant gloves, such as barrier laminate,

butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Choose body protection according to the amount and con-

centration of the dangerous substance at the work place.

Protective measures : Always have on hand a first-aid kit, together with proper in-

structions.

In case of insufficient ventilation, wear suitable respiratory

equipment.

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**

Appearance : extruded granules

Color : light brown

Odor : odorless

Odor Threshold : not determined

pH : 7.5

(as aqueous solution)

Melting point/range : Not available for this mixture.

Boiling point/boiling range : Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

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Flammability (solid, gas) : The product is not flammable.

Self-ignition : not auto-flammable

Upper explosion limit / Upper

flammability limit

: Not available for this mixture.

Lower explosion limit / Lower

flammability limit

Not available for this mixture.

Vapor pressure : Not applicable

Relative density : No data available

Density : 0.58 - 0.60 g/cm3

Solubility(ies)

Water solubility : dispersible

Partition coefficient: n-

octanol/water

No data available

Decomposition temperature : Not available for this mixture.

Viscosity

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

#### **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 reac-

tions

No decomposition if stored and applied as directed.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Avoid strong acids, bases, and oxidizers.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Acute toxicity**

Harmful if swallowed. Harmful by inhalation.

**Product:** 

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

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Acute inhalation toxicity : LC50 (Rat): > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute toxicity estimate (Rat): 4.3 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

#### Skin corrosion/irritation

Not classified based on available information.

**Product:** 

Species : Rabbit

Result : No skin irritation

Remarks : Minimal effects that do not meet the threshold for classifica-

tion.

Remarks : Not classified as irritant

Remarks : May cause skin irritation in susceptible persons.

## Serious eye damage/eye irritation

Not classified based on available information.

**Product:** 

Species : Rabbit Result : Eye irritation

Remarks : Not classified as irritant

Remarks : May cause irreversible eye damage.

## Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

## Respiratory sensitization

Not classified based on available information.

**Product:** 

Result : No data available

#### Germ cell mutagenicity

Not classified based on available information.

## Carcinogenicity

Not classified based on available information.

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#### Reproductive toxicity

Not classified based on available information.

### STOT-single exposure

Not classified based on available information.

## STOT-repeated exposure

Not classified based on available information.

### Repeated dose toxicity

#### **Components:**

### Dicamba, present as sodium salt:

Species : Rat

NOAEL : 110 mg/kg Application Route : Oral Exposure time : 2 y

Remarks : Based on data from similar materials

#### **Aspiration toxicity**

Not classified based on available information.

### **Further information**

**Product:** 

Remarks : No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

## **Product:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 1,000 mg/l

Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): 135 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 110 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

: EC50 (algae): 2.3 mg/l Exposure time: 72 h

#### Components:

### Dicamba, present as sodium salt:

Toxicity to fish : (Oncorhynchus mykiss (rainbow trout)): 135 mg/l

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Exposure time: 96 h

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 120.7 mg/l

Exposure time: 48 h

Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

EC50 (algae): 3.7 - 41 mg/l

Exposure time: 72 h

Remarks: Based on data from similar materials

Toxicity to terrestrial organ-

isms

(Birds): 1,373 mg/kg

### Persistence and degradability

**Product:** 

Biodegradability : Result: No data available

#### Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: No data available

Mobility in soil

No data available

Other adverse effects

**Product:** 

Additional ecological infor-

mation

No other ecological effects to be specially mentioned.

See product label for additional application instructions relat-

ing to environmental precautions.

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal 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.

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#### **SECTION 14. TRANSPORT INFORMATION**

## **International Regulations**

#### **UNRTDG**

Not regulated as a dangerous good

#### **IATA-DGR**

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **Domestic regulation**

#### **TDG**

Not regulated as a dangerous good

#### TDG

Not regulated as a dangerous good

#### **SECTION 15. REGULATORY INFORMATION**

## 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.

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

0-00-0

Dicamba, present as sodium salt

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

TECI: Not in compliance with the inventory

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#### **Canadian lists**

No substances are subject to a Significant New Activity Notification.

#### **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 Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States): UN - United Nations: UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods: vPvB - Very Persistent and Very Bioaccumulative: WHMIS - Workplace Hazardous Materials Information System

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End of Material Safety Data Sheet