

# SAFETY DATA SHEET



## SENCOR® 75 DF HERBICIDE

Version 2.0 / CDN  
102000007121

1/11  
Revision Date: 01/10/2018  
Print Date: 09/04/2018

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product identifier

**Trade name** SENCOR® 75 DF HERBICIDE

**Product code (UVP)** 04399641

**SDS Number** 102000007121

**PCP Registration No.** 17242

#### Relevant identified uses of the substance or mixture and uses advised against

**Use** Herbicide

**Restrictions on use** See product label for restrictions.

#### Information on supplier

**Supplier** Bayer CropScience Inc  
#200, 160 Quarry Park Blvd, SE  
Calgary, Alberta T2C 3G3  
Canada

**Responsible Department** Email: SDSINFO.BCS-NA@bayer.com

#### Emergency telephone no.

**Emergency Telephone Number (24hr/ 7 days)** 1-800-334-7577

**Product Information Telephone Number** 1-888-283-6847

### SECTION 2: HAZARDS IDENTIFICATION

#### Classified in accordance with Part 2 of the Hazardous Products Regulations

Acute toxicity(Oral, Inhalation): Category 4

#### Labelling in accordance with Part 3 of the Hazardous Products Regulations



**Signal word:** Warning

#### Hazard statements

Harmful if swallowed.  
Harmful if inhaled.

#### Precautionary statements

Wash thoroughly after handling.  
Avoid breathing dust.

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Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.  
Rinse mouth.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF INHALED: Call a POISON CENTER/doctor/physician if you feel unwell.  
Dispose of contents/container in accordance with local regulation.

### Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.  
No health hazards not otherwise classified.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Metribuzin	21087-64-9	75
Crystalline quartz (respirable)	14808-60-7	0.18

## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Eye contact</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Rinse out mouth and give water in small sips to drink. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

### Most important symptoms and effects, both acute and delayed

**Symptoms** Breathing difficulties, Sedation

**Indication of any immediate medical attention and special treatment needed**

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<b>Treatment</b>	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.
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### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing media

<b>Suitable</b>	Water, Dry chemical
<b>Unsuitable</b>	High volume water jet

<b>Special hazards arising from the substance or mixture</b>	Dangerous gases are evolved in the event of a fire.
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#### Advice for firefighters

<b>Special protective equipment for firefighters</b>	In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
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<b>Further information</b>	Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
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<b>Flash point</b>	Not applicable
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<b>Auto-ignition temperature</b>	No data available
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<b>Lower explosion limit</b>	Not applicable
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<b>Upper explosion limit</b>	Not applicable
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<b>Explosivity</b>	Dust may form explosive mixture in air.
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<b>Dust explosion class</b>	No data available
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### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

<b>Precautions</b>	Avoid dust formation. Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
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#### Methods and materials for containment and cleaning up

<b>Methods for cleaning up</b>	Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations. Contaminated soil may have to be removed and disposed.
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<b>Additional advice</b>	Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.
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**Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

### SECTION 7: HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on safe handling** Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

**Advice on protection against fire and explosion** Keep away from heat and sources of ignition. Avoid dust formation by friction. Dust may form explosive mixture in air.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove contaminated clothing immediately and dispose of safely. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

#### Conditions for safe storage, including any incompatibilities

**Requirements for storage areas and containers** Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Metribuzin	21087-64-9	5 mg/m <sup>3</sup> (TWA)	07 2009	CAD AB OEL
Metribuzin	21087-64-9	5 mg/m <sup>3</sup> (TWA)	09 2011	CAD BC OEL
Metribuzin	21087-64-9	5 mg/m <sup>3</sup> (TWA)	03 2011	CAD MB OEL
Metribuzin	21087-64-9	5 mg/m <sup>3</sup> (TWA)	11 2010	CAD ON OEL
Metribuzin	21087-64-9	5 mg/m <sup>3</sup> (8 HR ACL)	05 2009	CAD SK OEL

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Metribuzin	21087-64-9	10 mg/m <sup>3</sup> (15 MIN ACL)	05 2009	CAD SK OEL
Metribuzin	21087-64-9	5 mg/m <sup>3</sup> (TWA)	11 2011	OEL (QUE)
Metribuzin	21087-64-9	0.36 mg/m <sup>3</sup> (SK-SEN)		OES BCS*
Crystalline quartz (respirable)  (Respirable particles.)	14808-60-7	0.025 mg/m <sup>3</sup> (TWA)	07 2009	CAD AB OEL
Crystalline quartz (respirable)  (Respirable fraction.)	14808-60-7	0.025 mg/m <sup>3</sup> (TWA)	09 2011	CAD BC OEL
Crystalline quartz (respirable)  (Respirable fraction.)	14808-60-7	0.025 mg/m <sup>3</sup> (TWA)	03 2011	CAD MB OEL
Crystalline quartz (respirable)  (Respirable fraction.)	14808-60-7	0.10 mg/m <sup>3</sup> (TWA)	06 2015	CAD ON OEL
Crystalline quartz (respirable)  (Respirable fraction.)	14808-60-7	0.05 mg/m <sup>3</sup> (8 HR ACL)	05 2009	CAD SK OEL
Crystalline quartz (respirable)  (Respirable dust.)	14808-60-7	0.1 mg/m <sup>3</sup> (TWA)	11 2011	OEL (QUE)

\*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

### Exposure controls

#### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

#### Respiratory protection

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

#### Hand protection

Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)

#### Eye protection

Safety glasses with side-shields

#### Skin and body protection

Wear long-sleeved shirt and long pants and shoes plus socks.

#### General protective measures

Follow manufacturer's instructions for cleaning/maintaining PPE. If

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no such instructions for washables, use detergent and warm/tepid water.  
Keep and wash PPE separately from other laundry.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	grey-beige
<b>Physical State</b>	water-dispersible granules
<b>Odor</b>	musty
<b>Odour Threshold</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor Density (Air = 1)</b>	No data available
<b>Bulk density</b>	0.53 - 0.59 g/ml (loose)
<b>Evaporation rate</b>	Not applicable
<b>Boiling Point</b>	Not applicable
<b>Melting / Freezing Point</b>	Not applicable
<b>Water solubility</b>	dispersible
<b>Minimum Ignition Energy</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Flash point</b>	Not applicable
<b>Auto-ignition temperature</b>	No data available
<b>Lower explosion limit</b>	Not applicable
<b>Upper explosion limit</b>	Not applicable
<b>Explosivity</b>	Dust may form explosive mixture in air.
<b>Dust explosion class</b>	No data available

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### SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	
<b>Thermal decomposition</b>	No data available
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.

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<b>Conditions to avoid</b>	Sustained temperatures above 37.8 °C (100 °F).
<b>Incompatible materials</b>	Strong bases, Ketones, Aldehydes
<b>Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.

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### SECTION 11: TOXICOLOGICAL INFORMATION

**Exposure routes** Ingestion, Inhalation, Skin Absorption, Eye contact

#### Immediate Effects

**Eye** Moderate eye irritation.

**Skin** Harmful if absorbed through skin.

**Ingestion** Harmful if swallowed.

**Inhalation** Harmful if inhaled.

#### Information on toxicological effects

**Acute oral toxicity** LD50 (male Rat) 2,365 mg/kg  
LD50 (female Rat) 1,449 mg/kg

**Acute inhalation toxicity** LC50 (male/female combined Rat) > 4.84 mg/l  
Exposure time: 4 h  
Determined in the form of dust.

**Acute dermal toxicity** LD50 (male/female combined Rat) > 2,000 mg/kg  
LD50 (male/female combined Rabbit) > 5,000 mg/kg

**Skin irritation** Mild skin irritation. (Rabbit)

**Eye irritation** Moderate eye irritation. (Rabbit)

**Sensitisation** Non-sensitizing. (Guinea pig)

#### Assessment STOT Specific target organ toxicity – repeated exposure

Metribuzin caused specific target organ toxicity in experimental animal studies in the following organ(s):  
Liver, Kidney.

#### Assessment mutagenicity

Metribuzin was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

#### Assessment carcinogenicity

Metribuzin was not carcinogenic in lifetime feeding studies in rats and mice.

#### ACGIH

Metribuzin	21087-64-9	Group A4
Crystalline quartz (respirable)	14808-60-7	Group A2

#### NTP

Crystalline quartz (respirable)	14808-60-7
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### IARC

Crystalline quartz (respirable) 14808-60-7 Overall evaluation: 1

### OSHA

None.

### Assessment toxicity to reproduction

Metribuzin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Metribuzin is related to parental toxicity.

### Assessment developmental toxicity

Metribuzin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Metribuzin are related to maternal toxicity.

### Further information

Only acute toxicity studies have been performed on the formulated product.  
The non-acute information pertains to the active ingredient(s).

## SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity to fish</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) 74.6 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient metribuzin.
<b>Toxicity to aquatic invertebrates</b>	LC50 (Daphnia magna (Water flea)) 49.6 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient metribuzin.
<b>Toxicity to aquatic plants</b>	EC50 (Scenedesmus quadricauda (Green algae)) 0.022 mg/l The value mentioned relates to the active ingredient metribuzin.
<b>Toxicity to bacteria</b>	(activated sludge) 761 mg/l The value mentioned relates to the active ingredient metribuzin.
<b>Biodegradability</b>	Metribuzin: Not rapidly biodegradable
<b>Koc</b>	Metribuzin: Koc: 24 - 106
<b>Bioaccumulation</b>	Metribuzin: Does not bioaccumulate.
<b>Mobility in soil</b>	Metribuzin: Mobile in soils
<b>Environmental precautions</b>	Apply this product as specified on the label. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor runoff or drift. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.



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### SECTION 13: DISPOSAL CONSIDERATIONS

#### Waste treatment methods

<b>Product</b>	Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Dispose in accordance with all local, state/provincial and federal regulations.
<b>Contaminated packaging</b>	Follow advice on product label and/or leaflet. Do not re-use empty containers. Triple rinse containers. Puncture container to avoid re-use. Consult state and local regulations regarding the proper disposal of container.

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### SECTION 14: TRANSPORT INFORMATION

#### TDG

UN number	<b>3077</b>
Labels	9
Packaging group	III
Marine pollutant	Marine pollutant
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (METRIBUZIN)

#### 49CFR

Not dangerous goods / not hazardous material

#### IMDG

UN number	<b>3077</b>
Class	9
Packaging group	III
Marine pollutant	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (METRIBUZIN MIXTURE)

#### IATA

UN number	<b>3077</b>
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (METRIBUZIN MIXTURE )

This transportation information is not intended to convey all specific regulatory information relating to this

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product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: COMPOUNDS, TREE OR WEEDKILLING, N.O.I., other than poison; HAVING A DENSITY OF GREATER THAN 20 LBS. PER CUBIC FOOT

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### SECTION 15: REGULATORY INFORMATION

**PCP Registration No.** 17242

**US Federal Regulations**

**TSCA list**

None.

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

None.

**SARA Title III - Section 302 - Notification and Information**

None.

**SARA Title III - Section 313 - Toxic Chemical Release Reporting**

Metribuzin 21087-64-9 1.0%

**US States Regulatory Reporting**

**CA Prop65**

This product contains a chemical known to the State of California to cause cancer.

Crystalline quartz (respirable) 14808-60-7

**US State Right-To-Know Ingredients**

Metribuzin 21087-64-9 MN, NJ, RI

Crystalline quartz (respirable) 14808-60-7 MN, RI

**Canadian Regulations**

**Canadian Domestic Substance List**

Crystalline quartz (respirable) 14808-60-7

**Environmental**

**CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

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### SECTION 16: OTHER INFORMATION

**Abbreviations and acronyms**

49CFR Code of Federal Regulations, Title 49

ACGIH US. ACGIH Threshold Limit Values

ATE Acute toxicity estimate

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CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

### NFPA 704 (National Fire Protection Association):

Health - 1      Flammability - 3      Instability - 1      Others - none

### HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1      Flammability - 3      Physical Hazard - 1      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** Revised according to the current Canadian WHMIS standard (WHMIS 2015).

Prepared by the HSE Department of Bayer CropScience Inc. (306)-721-0310.

**Revision Date:** 01/10/2018

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