

SB-03 Herbicide

Version 0.0

Issue Date : 10/17/2019 Ref. 130000147965
Revision Date : 10/17/2019

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

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SB-03 Herbicide
 Tradename/Synonym : CHLORIMURON ETHYL: (Ethyl 2-[[[(4-chloro-6-methoxypyrimidin-2-yl)amino]carbonyl]amino]sulfonyl]benzoate
 IMAZETHAPYR: 3-Pyridinecarboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethyl-

SDS Number : 130000147965

Product Use : Herbicide
 Manufacturer : Production Agriscience Canada Company
 P.O. Box 730, 7398 Queen's Line
 Chatham, Ontario
 N7M 5L1
 Canada

Product Information : 1-800-667-3852
 Medical Emergency : 1-888-CAN-UTEC (226-8832) (24 hours)

SECTION 2. HAZARDS IDENTIFICATION

Potential Health Effects

Skin

Titanium dioxide : May cause skin irritation. May cause: Discomfort, itching, redness, or swelling..

Ingestion

Chlorimuron ethyl : Gross overexposure may cause: Abnormal decrease in number of red blood cells (anaemia) which could produce tiredness, rapid heartbeat, dizziness, pale skin, leg cramps, shortness of breath.

Carcinogenicity

Material	IARC	NTP	ACGIH
Kaolin	X	X	X
Sucrose			
Chlorimuron ethyl			
Titanium dioxide	X		

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Imazethapyr	81335-77-5	55.15 %
Chlorimuron ethyl	90982-32-4	6.62 %
Other Ingredients		38.23 %

Present as an impurity in the clay component of this product:

Titanium dioxide	13463-67-7	<1 %
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The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

- Skin contact : Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- Eye contact : 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 poison control center or doctor for treatment advice.
- Inhalation : Remove person to fresh air. If signs/symptoms continue, get medical attention. Artificial respiration and/or oxygen may be necessary. Call a poison control center or doctor for treatment advice.

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Ingestion : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.

General advice : Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
For medical emergencies involving this product, call toll free 1-800-441-3637.
See Label for Additional Precautions and Directions for Use.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray, Dry chemical, Foam, Carbon dioxide (CO2)

Unsuitable extinguishing media : High volume water jet, (contamination risk)

Firefighting Instructions : In the event of fire, wear self-contained breathing apparatus. Wear full protective clothing and self-contained breathing apparatus. Prevent fire extinguishing water from contaminating surface water or the ground water system. 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.
(on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Control access to area. Use personal protective equipment. Take precautionary measures against static discharges. Keep people away from and upwind of spill/leak. Refer to protective measures listed in sections 7 and 8.

Spill Cleanup : Clean-up methods - small spillage Prevent further leakage or spillage. Soak up with inert absorbent material. Shovel into suitable container for disposal. Clean-up methods - large spillage Prevent further leakage or spillage. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal

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according to local / national regulations (see section 13). Large spills should be collected mechanically (remove by pumping) for disposal. Collect leaking liquid in sealable (metal/plastic) containers. Collect and contain contaminated absorbent and dike material for disposal.

Accidental Release Measures : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

- Handling (Personnel) : Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material gets inside. Wash the outside of gloves before removing. Wash thoroughly and put on clean clothing.
- Handling (Physical Aspects) : Keep away from heat and sources of ignition. Take measures to prevent the build up of electrostatic charge.
- Storage : Store in original container. Keep in properly labelled containers. Keep tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children. No special restrictions on storage with other products. Stable under recommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering controls : Use only with adequate ventilation. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified for "Applicators and Other Handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

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Personal protective equipment

Skin and body protection : Applicators and other handlers must wear:

- Long sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material
- Polyvinylchloride
- Shoes plus socks

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical resistant gloves made of any waterproof material
- Polyvinylchloride
- Shoes plus socks

Protective measures : Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated.

Exposure Guidelines

Exposure Limit Values

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Titanium dioxide		
TLV	(ACGIH)	10 mg/m3 8-hour, time-weighted average Titanium dioxide Titanium dioxide

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : solid, granules
Odor : odourless

SECTION 10. STABILITY AND REACTIVITY

Stability : No decomposition if stored and applied as directed.
Incompatibility : No materials to be especially mentioned.
Hazardous reactions : No dangerous reaction known under conditions of normal use.
Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

SB-03 Herbicide
Inhalation 4 h LC50 : > 5 mg/l , Rat
Dermal LD50 : > 1,000 mg/kg , Rabbit
Oral LD50 : > 2,000 mg/kg , Rat
Skin irritation : No skin irritation, animals (unspecified species)
Eye irritation : No eye irritation, animals (unspecified species)
Minimal effects that do not meet the threshold for classification.
Sensitisation : Did not cause sensitisation on laboratory animals., multiple species

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Imazethapyr

Further information : Information given is based on data on the components.

Carcinogenicity : Not classifiable as a human carcinogen.

Reproductive toxicity : Weight of evidence does not support classification for reproductive toxicity

Teratogenicity : Animal testing showed no developmental toxicity.

Chlorimuron ethyl

Repeated dose toxicity : The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Dermal
Rabbit

No toxicologically significant effects were found.

Oral
Dog

No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., Abnormal decrease in number of red blood cells

Oral
Rat

No adverse effect has been observed in chronic toxicity tests.

Carcinogenicity : Not classifiable as a human carcinogen.
Animal testing did not show any carcinogenic effects.

Reproductive toxicity : No toxicity to reproduction

Teratogenicity : Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Titanium dioxide

Repeated dose toxicity : Oral
Rat

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No toxicologically significant effects were found.

- Carcinogenicity : Not classifiable as a human carcinogen.
Overall weight of evidence indicates that the substance is not carcinogenic.
- Reproductive toxicity : Animal testing showed no reproductive toxicity.
- Teratogenicity : Animal testing showed no developmental toxicity.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Chlorimuron ethyl

- 96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 1,000 mg/l
- 96 h LC50 : Lepomis macrochirus (Bluegill sunfish) > 100 mg/l
- 72 h EC50 : Pseudokirchneriella subcapitata (green algae) 0.001 mg/l
- 48 h EC50 : Daphnia magna (Water flea) > 1,000 mg/l

Titanium dioxide

- 96 h LC50 : Pimephales promelas (fathead minnow) > 1,000 mg/l
- 72 h ErC50 : Pseudokirchneriella subcapitata (green algae) > 100 mg/l see user defined free text
- 72 h NOEC : Algae 5,600 mg/l see user defined free text
- 48 h EC50 : Daphnia magna (Water flea) > 100 mg/l OECD Test Guideline 202

Additional ecological information : Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. 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 apply where/when conditions favour runoff.

SECTION 13. DISPOSAL CONSIDERATIONS

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Waste Disposal : Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container disposal: : Container Refilling and Disposal:
Refer to the product label for instructions.
Do not transport if this container is damaged or leaking.

Environmental Hazards : Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

IATA_C	UN number	: 3077
	Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Imazethapyr, Chlorimuron ethyl)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9
IMDG	UN number	: 3077
	Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Imazethapyr, Chlorimuron ethyl)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9
	Marine pollutant	: yes (Imazethapyr, Chlorimuron ethyl)

Not regulated as a hazardous material by DOT.
Not regulated as a hazardous material by TDG.

SECTION 15. REGULATORY INFORMATION

California Prop. 65 : WARNING! This product contains a chemical or chemicals known to the State of California to cause cancer. Titanium dioxide, Quartz, Naphthalene

PCP Registration # : 32649

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Remarks : Regulated under the Pest Control Products Act - WHMIS exempt.
No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

MSDS preparation date : 10/17/2019

Contact person : Production Agriscience Canada Company, Chatham, Ontario, N7M 5L1

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.