

BCB Meso 4L

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Mixture
Trade Names	BCB Meso 4L
CAS No.	Mixture
EPA Identification Number	EPA Reg. No. 60063-66

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

Identified Use(s)	Herbicide
Uses Advised Against	It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Details of the supplier of the safety data sheet

Manufactured For:	Better Choice Brands LLC 4252 E Log Providence Road Columbia, MO 65201
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Telephone	870-919-6675
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Emergency telephone number

Emergency Phone No.	CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)
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SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)	Not classified according to OSHA 29 CFR 1910.1200 criteria. Observe directions on label and instructions for use. See Also Section 15.
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Label elements

This is a pesticide product registered with the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS) and for workplace labels of non pesticide chemicals. The labeling information below applies to non-pesticide workplace labels. For pesticide label information, refer to Section 15.

Hazard Symbol(s)	None
Signal Word(s)	None
Hazard Statement(s)	None
Precautionary Statement(s)	Observe directions on label and instructions for use. See Also Section 15.

Other hazards

Very toxic to aquatic life with long lasting effects.

Additional Information

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)
Mesotrione	~ 40	104206-82-8	Aquatic Acute 1; H400 Aquatic Chronic 1; H410

Additional Information – None

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is laboured, administer oxygen. Call a POISON CENTER/doctor if you feel unwell. Treat symptomatically.
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Skin Contact	Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention. Treat symptomatically. Contaminated clothing should be laundered before reuse.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Ingestion	Do not give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. Rinse mouth.
Most important symptoms and effects, both acute and delayed	None
Indication of any immediate medical attention and special treatment needed	Call a POISON CENTER or doctor/physician if you feel unwell.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media	
-Suitable Extinguishing Media	Extinguish with carbon dioxide, dry chemical, foam or water spray.
-Unsuitable Extinguishing Media	None known.
Special hazards arising from the substance or mixture	Combustion or thermal decomposition will evolve toxic and irritant vapours. Forms oxides of carbon and nitrogen, also sulfur and sulfur compounds. Decontaminate equipment or materials used in pesticide fires.
Advice for fire-fighters	Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Observe directions on label and instructions for use. See Also Section 15.
Environmental precautions	Observe directions on label and instructions for use. See Also Section 15.
Methods and material for containment and cleaning up	Observe directions on label and instructions for use. See Also Section 15.
Reference to other sections	Observe directions on label and instructions for use. See Also Section 15.
Additional Information	None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Observe directions on label and instructions for use. See Also Section 15.
Conditions for safe storage, including any incompatibilities	
-Storage temperature	Store at room temperature. Do not allow material to freeze.
-Incompatible materials	Strong oxidising agents.
Specific end use(s)	Herbicide

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Occupational Exposure Limits

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SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
None	-----	-----	-----	-----	-----	-----

Exposure controls

Appropriate engineering controls

Do **NOT** aerosolize or atomize to produce inhalable-size particles. Use low-pressure coarse spray only. Observe directions on label and instructions for use. See Also Section 15.

Personal protection equipment

Eye/face protection



Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other)



Gloves. Observe directions on label and instructions for use. See Also Section 15.

Respiratory protection



Observe directions on label and instructions for use. See Also Section 15.

Thermal hazards

Not normally required.

Environmental Exposure Controls

Do not allow to enter drains, sewers or watercourses. Observe directions on label and instructions for use. See Also Section 15.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Colour.	Off-white
Odour	Odourless
Odour Threshold (ppm)	Not available.
pH (Value)	4.25 (1% Soln.)
Melting Point (°C) / Freezing Point (°C)	Not available.
Boiling point/boiling range (°C):	Not available.
Flash Point (°C)	Non-flammable / Non-combustible.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Explosive Limit Ranges	Not available.
Vapour pressure (Pascal)	Not available.
Vapour Density (Air=1)	Not available.
Density (g/ml)	1.198
Solubility (Water)	Not available.
Solubility (Other)	Not available.
Partition Coefficient (n-Octanol/water)	Not available.
Auto Ignition Point (°C)	Not available.
Decomposition Temperature (°C)	Not available.
Kinematic Viscosity (cSt)	374 @ 20 °C
Explosive properties	Not explosive.

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Oxidising properties

Not oxidising.

Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No hazardous reactions known if used for its intended purpose.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

None anticipated.

Conditions to avoid

Incompatible materials

Incompatible materials

Strong oxidising agents.

Hazardous decomposition product(s)

Combustion or thermal decomposition will evolve toxic and irritant vapours. Forms oxides of carbon and nitrogen, also sulfur and sulfur compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

Substances

Not applicable

Mixtures

Acute toxicity

Oral: LD50 >2000 mg/kg-bw (rat)

Dermal: LD50 >2000 mg/kg-bw (rat)

Inhalation: LC50 >2.3 mg/L, 4-hr (Aerosol) (rat)

Skin corrosion/irritation

Unlikely to cause skin irritation.

Serious eye damage/irritation

Unlikely to cause eye irritation.

Respiratory or skin sensitization

It is not a skin sensitiser in animal tests.

Germ cell mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

STOT - single exposure

Not available.

STOT - repeated exposure

Not available.

Aspiration hazard

Not available.

Substances in preparations / mixtures

Mesotrione (CAS No. 104206-82-8):

Acute toxicity

Oral: LD50 >2000 mg/kg -bw

Dermal: LD50 >5000 mg/kg -bw

Inhalation: LC50 >2.08 mg/l (Aerosol), 4-hr. rat

Irritation/Corrosivity

Unlikely to cause eye irritation. Unlikely to cause skin irritation.

Sensitization

It is not a skin sensitiser in animal tests.

Repeated dose toxicity

Not to be expected. NOAEL = 71 mg/kg/day (mice)

Carcinogenicity

Not to be expected.

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

Mutagenicity

Not to be expected.

Reproductive toxicity

Not to be expected. NOAEL = 71 mg/kg/day (mice)

Additional Information

Not available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

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Mixtures

Short term (By analogy with similar materials)	LC50 (96 hour): >100 mg/L (fish) LC50 (48 hour): >100 mg/L (<i>Daphnia magna</i>) EC50 (96 hour): >100 mg/L (Green algae) (Growth rate)
Long Term	Not available.

Substances in preparations / mixtures

Mesotrione (CAS No. 104206-82-8):

Short term	LC50 (96 hour): >120 mg/L (fish) EC50 (48 hour): 840 mg/L (<i>Daphnia magna</i>) EC50 (7 days): 0.02 mg/L (Duckweed)
Long Term	EC10 (7 days): 0.0068 mg/L (Duckweed)
Persistence and degradability	Part of the components are poorly biodegradable.
Bioaccumulative potential	Not determined.
Mobility in soil	Not determined.
Results of PBT and vPvB assessment	Not classified as PBT.
Other adverse effects	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice. Observe directions on label and instructions for use. See Also Section 15.
Additional Information	None known.

SECTION 14: TRANSPORT INFORMATION

	Land transport (U.S. DOT) *	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	Not classified as dangerous for transport. *	UN 3082	UN 3082
Proper Shipping Name		Environmentally hazardous substance, liquid, n.o.s. (Mesotrione)	
Transport hazard class(es)		9	9
Packing group		III	III
Hazard label(s)		Marine Pollutant	Marine Pollutant
Environmental hazards		Yes	Yes
Special precautions for user		None Assigned	None Assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

* For bulk shipments in U.S., can be shipped as UN3082, Environmentally hazardous substance, liquid, n.o.s. (Mesotrione), 9, PG III

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: This is a registered pesticide product regulated under Federal Insecticide, Fungicide, and Rodenticide Act and, therefore, the components of this product are not subject to listing on the TSCA inventory.

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EPA FIFRA Information for SDS Section 15 (Regulatory Information):

This is a pesticide product registered with the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non pesticide chemicals.

The hazard information required on the pesticide label is reproduced below:

CAUTION: Harmful if swallowed, or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE):

Mixers, loaders, applicators and all other handlers must wear:

- Long sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves made of barrier laminate, butyl rubber >14 mils, nitrile rubber >14 mils, neoprene rubber >14 mils, natural rubber >14 mils, polyethylene, polyvinyl chloride (PVC) >14 mils, or Viton >14 mils

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.

USER SAFETY RECOMMENDATIONS

Users should

- 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 pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove and wash contaminated clothing before reuse..
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Engineering Controls:

When handlers use closed systems or enclosed cabs 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.

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 disposing of equipment wash water or rinsate.

Surface Water Advisory

This product may contaminate water through drift or spray in wind. This product has a high potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

The pesticide label also includes other important information, including directions for use.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	----	-----	-----

SARA 311/312 - Hazard Categories: See SECTION 2 - HAZARDS IDENTIFICATION

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	----	-----

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)	TPQ (Pounds)
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None	----	-----	-----	
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Proposition 65 (California):

Chemical Name	CAS No.	Typical %wt.	Hazards
None	----	-----	-----

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16

Date of preparation: August, 28th, 2025

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

Hazard Statement(s)

- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.

To the extent consistent with applicable law, Better Choice Brands, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with the directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Better Choice Brands, LLC.

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