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Safety Data Sheet

Distinct Herbicide

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Version: 10.0

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(30278613/SDS_CPA_US/EN)

1. Identification

Product identifier used on the label

Distinct Herbicide

Recommended use of the chemical and restriction on use

Recommended use*: crop protection product, herbicide

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Substance number:	57156
Registration number:	EPA Registration number: 7969-150
Molecular formula:	C ₈ H ₅ Cl ₂ O ₃ .Na ; C ₅ H ₁₁ F ₂ N ₄ O ₃ .Na
Chemical family:	substituted, aromatic, carboxylic acid, semicarbazones
Synonyms:	sodium dicamba; sodium diflufenzopyr

2. Hazards Identification

According to Regulation 2024 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Acute Tox.	4 (oral)	Acute toxicity
Eye Irrit.	2B	Eye irritation
Carc.	1A (by inhalation)	Carcinogenicity

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STOT SE	1	Specific target organ toxicity — single exposure
STOT SE	3 (May cause drowsiness and dizziness.)	Specific target organ toxicity — single exposure
STOT SE	3 (irritating to respiratory system)	Specific target organ toxicity — single exposure
Aquatic Acute	2	Hazardous to the aquatic environment - acute
Aquatic Chronic	2	Hazardous to the aquatic environment - chronic
Combustible Dust	Combustible Dust (1)	Combustible Dust

Label elements

Pictogram:



Signal Word:
Danger

Hazard Statement:

	May form combustible dust concentration in air.
H320	Causes eye irritation.
H302	Harmful if swallowed.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.
H370	Causes damage to organs.
H350	May cause cancer by inhalation.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P271	Use only outdoors or in a well-ventilated area.
P260	Do not breathe dust/gas/mist/vapours.
P202	Do not handle until all safety precautions have been read and understood.
P270	Do not eat, drink or smoke when using this product.
P264	Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P308 + P311	IF exposed or concerned: Call a POISON CENTER or physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P330	Rinse mouth.
P391	Collect spillage.
P337 + P313	If eye irritation persists: Get medical attention.

Precautionary Statements (Storage):

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P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Precautionary Statements (Disposal):
P501 Dispose of contents/container in accordance with local regulations.

Hazards not otherwise classified

Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 5 - 6 % dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 4 - 6 % oral

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 5 - 6 % Inhalation - dust

Product contains the following components and may cause an allergic skin reaction: MORWET 3008 POWDER [EXT]

3. Composition / Information on Ingredients

According to Regulation 2024 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

dicamba

CAS Number: 1918-00-9

Content (W/W): 55.03 %

Synonym: 3,6-Dichloro-2-methoxybenzoic acid; 3,6-Dichloro-o-anisic acid,
Dicamba

Sodium Diflufenzopyr

CAS Number: 109293-98-3

Content (W/W): 21.32 %

Synonym: No data available.

Diatomaceous Earth

CAS Number: 61790-53-2

Content (W/W): ≥ 7.0 - $\leq 15.0\%$

Synonym: No data available.

Sodium Hydroxide

CAS Number: 1310-73-2

Content (W/W): ≥ 1.0 - $\leq 7.0\%$

Synonym: Sodium hydroxide; Caustic soda

Methanol

CAS Number: 67-56-1

Content (W/W): ≥ 1.0 - $\leq 5.0\%$

Synonym: Methanol; Methyl alcohol

Benzoic acid, 3,6-dichloro-2-hydroxy-

CAS Number: 3401-80-7

Content (W/W): ≥ 0.5 - $\leq 5.0\%$

Synonym: No data available.

cristobalite

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CAS Number: 14464-46-1
Content (W/W): ≥ 0.1 - $< 1.0\%$
Synonym: Cristobalite

Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts
CAS Number: 68081-81-2
Content (W/W): ≥ 0.1 - $< 1.0\%$
Synonym: No data available.

3-Pyridinecarboxylic acid, 2-acetyl-
CAS Number: 89942-59-6
Content (W/W): ≥ 0.1 - $\leq 1.0\%$
Synonym: No data available.

Quartz (SiO₂)
CAS Number: 14808-60-7
Content (W/W): ≥ 0.1 - $\leq 1.0\%$
Synonym: Silicon dioxide

The actual concentration is withheld as a trade secret.
NJ TSRN: New Jersey Trade Secret Registry Number

4. First-Aid Measures

Description of first aid measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary.

If on skin:

Immediately wash thoroughly with soap and water, seek medical attention.

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

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Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Immediate medical attention required. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Hazards: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, foam, dry powder

Unsuitable extinguishing media for safety reasons:
carbon dioxide, water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
carbon monoxide, carbon dioxide, nitrogen oxides, halogenated compounds
The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting:
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

Methods and material for containment and cleaning up

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

7. Handling and Storage

Precautions for safe handling

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear. Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

Dust explosion class: Dust explosion class 1 (Kst-value >0 up to 200 bar m s-1).

Conditions for safe storage, including any incompatibilities

Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed.

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8. Exposure Controls/Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

Components with occupational exposure limits

Methanol	ACGIH, US:	TWA value 200 ppm ;
	ACGIH, US:	STEL value 250 ppm ;
	OSHA Z1:	PEL 200 ppm 260 mg/m3 ;
	ACGIH, US:	Skin Designation ; Danger of cutaneous absorption
	ACGIH, US:	Skin Designation ; Danger of cutaneous absorption
	NIO ID, US:	IDLH 6,000 ppm ; IDLH values based on the 1994 Revised Criteria
	NIO ID, US:	LEL 6.0 % ;
Sodium Hydroxide	ACGIH, US:	CLV 2 mg/m3 ;
	OSHA Z1:	PEL 2 mg/m3 ;
	NIO ID, US:	IDLH 10 mg/m3 ; IDLH values based on the 1994 Revised Criteria
Diatomaceous Earth	OSHA Z3:	TWA value 0.8 mg/m3 ; The exposure limit is calculated from the equation, 80mg/m3)/(%SiO2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.
	OSHA Z3:	TWA value 20 millions of particles per cubic foot of air ;
	ACGIH, US:	TWA value 10 mg/m3 Inhalable particles ;
	ACGIH, US:	TWA value 3 mg/m3 Respirable particles ;
	OSHA Z3:	TWA value 15 millions of particles per cubic foot of air Respirable fraction ;
	OSHA Z3:	TWA value 50 millions of particles per cubic foot of air Total dust ;
	OSHA Z3:	TWA value 5 mg/m3 Respirable fraction ;
	OSHA Z3:	TWA value 15 mg/m3 Total dust ;
	NIOSH, US:	REL value 6 mg/m3 ;
	NIO ID, US:	IDLH 3,000 mg/m3 ; IDLH values based on the 1994 Revised Criteria

Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

Personal protective equipment

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. For situations where the airborne concentrations may exceed the level for which an air

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purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection:

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

Eye protection:

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

Physical state:	solid
Form:	granules
Odour:	almost odourless, moderate odour
Odour threshold:	Not determined due to potential health hazard by inhalation.
Colour:	off-white to tan
pH value:	approx. 7 - 9 (1 %(m), 25 °C)
Melting point:	> 320 °C The data given are those of the active ingredient.
Boiling point:	approx. 155 °C (760 mmHg)
Sublimation point:	No data available.
Flash point:	not applicable, the product is a solid
Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

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Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Autoignition:	not applicable, the product is a solid
Density:	No information is available for the absolute density. Instead the bulk density was determined as a more relevant value.
Relative density:	No data available.
Bulk density:	610 kg/m ³ (25 °C)
Relative vapour density:	not applicable
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures, The statements are based on the properties of the individual components.
Self-ignition temperature:	not determined
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, kinematic:	not applicable, the product is a solid
Solubility in water:	dispersible
Solubility (quantitative):	No data available.
Solubility (qualitative):	No data available.
Molecular weight:	No data available.

Particle characteristics

No data available.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:
not fire-propagating

Dust explosivity characteristics:
Kst: 159 m.bar/s
P_{max}=7.1

Dust explosion class:
Dust explosion class 1 (Kst-value >0 up to 200 bar m s⁻¹) (St 1)

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is chemically stable.
Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

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Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme temperatures. Avoid prolonged exposure to extreme heat. Avoid contamination. Avoid electro-static discharge. Avoid prolonged storage. This product may form an explosive mixture if: 1. the dust is suspended in the atmosphere as a dust cloud AND 2. the concentration of the dust is above the lower explosion limit (LEL) AND 3. the limiting oxygen concentration (LOC) is exceeded.

Incompatible materials

strong oxidizing agents

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated., Prolonged thermal loading can result in products of degradation being given off.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Slightly toxic after single ingestion. Relatively nontoxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

Oral

Type of value: LD50

Species: rat (male/female)

Value: > 1,800 mg/kg (OECD Guideline 423)

Inhalation

Type of value: LC50

Species: rat

Value: > 5.34 mg/l (OECD Guideline 403)

Exposure time: 4 h

Tested as dust aerosol.

No mortality was observed.

Dermal

Type of value: LD50

Species: rat

Value: > 5,000 mg/kg (OECD Guideline 402)

No mortality was observed.

Assessment other acute effects

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Assessment of STOT single:

A single exposure may have relevant toxic effects on organs. Possible narcotic effects (drowsiness or dizziness). Causes temporary irritation of the respiratory tract.

Target organ: Optic nerve; Central nervous system

The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion

Assessment of irritating effects: May cause slight irritation to the skin. May cause moderate but temporary irritation to the eyes.

Skin

Species: rabbit

Result: non-irritant

Method: OECD Guideline 404

Eye

Species: rabbit

Result: Irritant.

Sensitization

Assessment of sensitization: No sensitizing effect.

modified Buehler test

Species: guinea pig

Result: Non-sensitizing.

Method: OECD Guideline 406

Aspiration Hazard

not applicable

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 3-Pyridinecarboxylic acid, 2-(1-(((3,5-difluorophenyl)amino)carbonyl)hydrazono)ethyl)-, monosodium salt

Assessment of repeated dose toxicity: Repeated oral exposure to large quantities may affect certain organs. Based on available data, the classification criteria are not met.

Information on: cristobalite

Assessment of repeated dose toxicity: Prolonged or repeated inhalation of respirable crystalline silica may result in silicosis. Repeated inhalation exposure may cause inflammatory effects in the lung. The substance may cause increase in lung mass and lung tissue changes after repeated inhalation. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

This product may contain greater than 0.1% crystalline silica. Repeated exposure to high concentrations results in silicosis, a lung disease characterized by coughing, difficult breathing, wheezing, scarring of the lungs, and repeated, non-specific chest illnesses.

OSHA (Occupational Safety and Health Administration) has classified this substance as harmful to the lung, kidney and immune system following repeated inhalation exposure.

Information on: Methanol

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Assessment of repeated dose toxicity: The substance may cause blindness after repeated ingestion. The substance may cause blindness after repeated inhalation.

Genetic toxicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

The respirable fraction is < 0.1 %, therefore the classification regarding inhalation toxicity does not apply.

Information on: Methanol

Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by inhalation, a carcinogenic effect was not observed. In long-term animal studies in which the substance was given in the drinking water in high concentrations, a carcinogenic effect was observed. These effects are not relevant to humans at occupational levels of exposure.

Information on: cristobalite

Assessment of carcinogenicity: May cause cancer by inhalation. The substance was found to cause cancer in animal experiments. Epidemiological studies stated a carcinogenic activity also in humans. The substance and its compounds in the form of respirable dusts/aerosols classified by the German MAK commission as a category 1 carcinogen (substances that cause cancer to humans). The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen.

NTP listed carcinogen

OSHA (Occupational Safety and Health Administration) has classified this substance as carcinogenic.

Information on: Quartz (SiO₂)

Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. In long-term animal studies in which the substance was given by inhalation in high doses, a carcinogenic effect was observed. The substance and its compounds in the form of respirable dusts/aerosols classified by the German MAK commission as a category 1 carcinogen (substances that cause cancer to humans). A carcinogenic effect cannot safely be ruled out. The inhalation uptake of the alveolar fraction of the fine dust may cause damage to the lungs. The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen.

NTP listed carcinogen

OSHA (Occupational Safety and Health Administration) has classified this substance as carcinogenic.

Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity

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Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Methanol

Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to fish. Acutely harmful for aquatic invertebrates. Acutely toxic for aquatic plants.

Toxicity to fish

LC50 (96 h) > 200 mg/l, *Oncorhynchus mykiss*

Aquatic plants

EC50 (72 h) > 150 mg/l, *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

No observed effect concentration (72 h) > 150 mg/l, *Selenastrum capricornutum* (OECD Guideline 201, static)

Chronic toxicity to fish

Information on: Sodium salt of dicamba

No observed effect concentration (25 d) 10 mg/l, *Pimephales promelas*

Information on: 3-Pyridinecarboxylic acid, 2-(1-(((3,5-difluorophenyl)amino)carbonyl)hydrazono)ethyl)-, monosodium salt

No observed effect concentration (33 d) 5 mg/l, *Pimephales promelas*

Chronic toxicity to aquatic invertebrates

Information on: Sodium salt of dicamba

No observed effect concentration (35 d) 5.8 mg/l, *Mysidopsis bahia*

Information on: 3-Pyridinecarboxylic acid, 2-(1-(((3,5-difluorophenyl)amino)carbonyl)hydrazono)ethyl)-, monosodium salt

No observed effect concentration (21 d) 1.9 mg/l, *Daphnia magna*

Assessment of terrestrial toxicity

Acutely harmful to terrestrial organisms.

Other terrestrial non-mammals

Information on: dicamba

Information on: 3-Pyridinecarboxylic acid, 2-[1-[[[(3,5-difluorophenyl)amino]carbonyl]hydrazono]ethyl]-

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LD50 > 2,250 mg/kg, Colinus virginianus
With high probability not acutely harmful to terrestrial organisms.
LC50, Colinus virginianus
With high probability not acutely harmful to terrestrial organisms.
LC50, Anas platyrhynchos
With high probability not acutely harmful to terrestrial organisms.
LD50 > 25 ug/bee, Apis mellifera
Acutely harmful to honeybees.

Persistence and degradability

Elimination information

Not readily biodegradable (by OECD criteria).

Assessment biodegradation and elimination (H2O)

Information on: Sodium salt of dicamba

Not readily biodegradable (by OECD criteria).
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: 3-Pyridinecarboxylic acid, 2-(1-(((3,5-difluorophenyl)amino)carbonyl)hydrazono)ethyl)-, monosodium salt

Bioaccumulative potential

Assessment bioaccumulation potential

Information on: Sodium salt of dicamba

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: 3-Pyridinecarboxylic acid, 2-(1-(((3,5-difluorophenyl)amino)carbonyl)hydrazono)ethyl)-, monosodium salt

Mobility in soil

Assessment transport between environmental compartments

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Sodium salt of dicamba

The substance will not evaporate into the atmosphere from the water surface.
Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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Information on: 3-Pyridinecarboxylic acid, 2-(1-(((3,5-difluorophenyl)amino)carbonyl)hydrazono)ethyl-, monosodium salt

*Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

Additional information

Other ecotoxicological advice:
Do not discharge product into the environment without control.

The ecological data given are those of the active ingredient. Do not release untreated into natural waters.

13. Disposal considerations

Waste disposal of substance:

Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container disposal:

Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

RCRA:

This product is not regulated by RCRA.

14. Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Hazard class:	9
Packing group:	III
ID number:	UN 3077
Hazard label:	9, EHSM
Marine pollutant:	YES
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains SODIUM DIFLUFENZOPYR, SODIUM 3,6-DICHLORO-O-ANISATE)

Air transport

IATA/ICAO

Hazard class: 9

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Distinct Herbicide

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Packing group: III
ID number: UN 3077
Hazard label: 9, EHS
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains SODIUM DIFLUFENZOPYR, SODIUM 3,6-DICHLORO-O-ANISATE)

Further information

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 kg or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2:10.2.7; IATA: A197; TDS: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

15. Regulatory Information

Federal Regulations

Registration status:

Crop Protection TSCA, US released / exempt

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

CERCLA RQ

1000 LBS

CAS Number

1310-73-2; 1918-00-9

Chemical name

Sodium Hydroxide; dicamba

State regulations

State RTK

PA

CAS Number

67-56-1

Chemical name

Methanol

1310-73-2

Sodium Hydroxide

1918-00-9

dicamba

61790-53-2

Diatomaceous Earth

NJ

1310-73-2

Sodium Hydroxide

1918-00-9

dicamba

14464-46-1

cristobalite

14808-60-7

Quartz (SiO₂)

67-56-1

Methanol

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

BASF Risk Assessment, CA Prop. 65:

Based on an evaluation of the product's composition and the use(s), this product does not require a California Proposition 65 Warning.

HMIS III rating

Health: 3 $\square$ Flammability: 1 Physical hazard: 0

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Labeling requirements under FIFRA

This chemical is a pesticide product regulated by the 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, and workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

CAUTION:

KEEP OUT OF REACH OF CHILDREN.

KEEP OUT OF REACH OF DOMESTIC ANIMALS.

Causes moderate eye irritation.

HARMFUL IF SWALLOWED.

HARMFUL IF ABSORBED THROUGH SKIN.

Prolonged or repeated skin contact may cause sensitization or allergic reactions.

Avoid contact with the skin, eyes and clothing.

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2025/09/29

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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Date / Revised: 2025/09/29

Version: 10.0

Date / Previous version: 2019/04/23

Previous version: 9.0

END OF DATA SHEET