



Clash® Selective Herbicide

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 10/8/2024 Version: 1.0

SECTION 1: Identification

Identification

Product form : Mixture
Trade name : Clash® Selective Herbicide
Other means of identification : EPA Reg. No. 228-615

Recommended use and restrictions on use

Recommended use : Fungicide
Restrictions on use : All other uses not recommended above

Supplier

Nufarm Americas, Inc.
11901 South Austin Avenue
Alsip, IL 60803
United States
T 1-800-345-3330
www.nufarm.com

Emergency telephone number

Emergency number : For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night: 1-800-424-9300 (Toll Free, USA) / 703-527-3887 (Virginia, USA)
CCN 16105

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation Category 2A Causes serious eye irritation
Specific target organ toxicity (repeated exposure) Category 2 May cause damage to organs through prolonged or repeated exposure

Full text of H statements : see section 16

GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning
Hazard statements (GHS US) : Causes serious eye irritation
May cause damage to organs through prolonged or repeated exposure
Precautionary statements (GHS US) : Do not breathe mist, spray, vapors, fume.
Wash hands, forearms and face thoroughly after handling.
Wear protective clothing, eye protection, face protection.
IF IN EYES: 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.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Other hazards which do not result in classification

No additional information available

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Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

Substances

Name	Product identifier	%	GHS US classification
Diglycolamine Salt of Dicamba	CAS-No.: 104040-79-1	55 – 58.5	Eye Irrit. 2A, H319 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

Description of first aid measures

First-aid measures general	: First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person. Give artificial respiration if necessary. Induce artificial respiration with mask fitted with one-way valve or other suitable device but not mouth-to-mouth.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact	: Rinse skin with plenty of water or shower. If skin irritation or rash occurs : Get medical advice/attention.
First-aid measures after 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.
First-aid measures after ingestion	: Rinse mouth and spit the fluids out. If the person is fully conscious, make him/her drink water (8 ounces / 240mL). Never give an unconscious person anything to drink. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Call a POISON CENTER or doctor/physician.

Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: May cause damage to organs through prolonged or repeated exposure.
Symptoms/effects after skin contact	: Contact during a long period may cause slight irritation.
Symptoms/effects after eye contact	: May cause severe irritation.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract.
Most Important Symptoms/Effects	: Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure.

Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Dry chemical, CO2, or water spray or regular foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.

Specific hazards arising from the chemical

Fire hazard	: No fire hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Hydrogen. Nitrogen oxides.

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Special protective equipment and precautions for fire-fighters

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| Firefighting instructions | : | Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Use extinguishing media appropriate for surrounding fire. Move containers from fire area if it can be done without personal risk. |
| Protection during firefighting | : | Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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|----------------------|---|--|
| Protective equipment | : | Wear recommended personal protective equipment. |
| Emergency procedures | : | Evacuate the danger area. If outdoors, move to an area upwind of the danger area. Avoid contact with skin and eyes. If possible without taking personal risks, remove ignition sources. Prevent other non-emergency personnel from entering the danger area. |

For emergency responders

- | | | |
|----------------------|---|--|
| Protective equipment | : | Wear the recommended personal protective equipment. |
| Emergency procedures | : | Evacuate unnecessary personnel. Ventilate spillage area. Stop leak if safe to do so. |

Environmental precautions

Follow product instructions and best practices for use to avoid misapplications of the product. Do not negligently allow product to enter off-target drains, sewers, or ground water.

Methods and material for containment and cleaning up

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| For containment | : | Contain with non-combustible inert absorbent. |
| Methods for cleaning up | : | Take up in non-combustible inert absorbent and place into container for disposal. Contaminated absorbent material may pose the same hazard as the spilt product. Decontaminate surfaces and equipment with water and detergent. Until a sufficient level of dilution is achieved, the decontamination water may pose the same hazards as the product. |
| Other information | : | Dispose of materials or solid residues at an authorized site. |

Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

Precautions for safe handling

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| Precautions for safe handling | : | Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not breathe mist, spray, gas, vapors. |
| Hygiene measures | : | Always wash hands after handling the product. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. |

Conditions for safe storage, including any incompatibilities

- | | | |
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| Storage conditions | : | Store in a cool, dry and well-ventilated area away from incompatible substances. Protect from sunlight. Keep container closed when not in use. |
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SECTION 8: Exposure controls/personal protection

Control parameters

No additional information available

Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Individual protection measures/Personal protective equipment

Personal protective equipment:

Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment. Wear recommended personal protective equipment.

Hand protection:
Wear protective gloves. The following materials are suitable for protective gloves: Butyl rubber, Nitrile rubber
Eye protection:
Chemical goggles. Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	: Liquid.
Color	: Clear Dark green
Odor	: Odorless
Odor threshold	: No data available
pH	: 7 – 8
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 220 °F
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: 1.25
Relative density	: No data available
Solubility	: Soluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

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SECTION 10: Stability and reactivity

Reactivity:	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions of use.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Incompatible materials.
Incompatible materials	: Strong acids. Strong bases. Oxidizing agents.
Hazardous decomposition products	: Thermal decomposition generates: Carbon dioxide. Carbon monoxide. Nitrogen oxides.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Clash® Selective Herbicide	
LD50 oral rat	3512 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 5.3 mg/l

Skin corrosion/irritation	: Not irritating to rabbits on cutaneous application pH: 7 – 8
Serious eye damage/irritation	: Moderately irritating to rabbits on ocular application. pH: 7 – 8
Respiratory or skin sensitization	: No sensitizing reaction was observed for guinea pigs
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after inhalation	: May cause damage to organs through prolonged or repeated exposure.
Symptoms/effects after skin contact	: Contact during a long period may cause slight irritation.
Symptoms/effects after eye contact	: May cause severe irritation.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract.
Most Important Symptoms/Effects	: Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure.

SECTION 12: Ecological information

Toxicity

Ecology - general	: Harmful to aquatic life with long lasting effects.
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Clash® Selective Herbicide	
LC50 - Fish [1]	400 mg/l Bluegill
EC50 - Crustacea [1]	400 mg/l Daphnia
LC50 - Fish [2]	400 mg/l Rainbow Trout

Persistence and degradability

No additional information available

Bioaccumulative potential

No additional information available

Mobility in soil

No additional information available

Other adverse effects

No additional information available




SECTION 13: Disposal considerations

Disposal methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose of this material and its container at hazardous or special waste collection point. Refer to all applicable national, international and local regulations or provisions.
Additional information	: Do not re-use empty containers.
Ecological waste information	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
UN number		
3082	3082	3082
Proper Shipping Name		
Environmentally hazardous substances, liquid, n.o.s. (Dicamba)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dicamba)	Environmentally hazardous substance, liquid, n.o.s. (Dicamba)
Transport hazard class(es)		
9	9	9
		
Packing group		
III	III	III

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DOT	IMDG	IATA
Environmental hazards		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: No	Dangerous for the environment: Yes
DOT Note: Material is not hazardous when shipped less than 119 gallons.		

Special precautions for user

DOT	
UN-No.(DOT)	: UN3082
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: No Limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: No Limit
DOT Vessel Stowage Location	: A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.

IMDG	
Special provision (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
Packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG)	: A

IATA	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
ERG code (IATA)	: 9L

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

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:		
Diglycolamine Salt of Dicamba	CAS-No. 104040-79-1	55 – 58.5%

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This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

FIFRA Labelling	
EPA Registration Number	228-615
This chemical is a pesticide product registered by the U.S. 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 for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.	
FIFRA Signal Word	Caution

15.2. International regulations

CANADA

Diglycolamine Salt of Dicamba (104040-79-1)	
Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)	

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Full text of hazard classes and H-statements	
H319	Causes serious eye irritation
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.