

### SECTION 1: Identification

#### Identification

Product form : Mixture  
Trade name : Allstar Herbicide  
Product code : 228-757

#### Recommended use and restrictions on use

Recommended use : Herbicide  
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](http://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

Acute toxicity (oral) Category 4	Harmful if swallowed
Skin corrosion/irritation Category 2	Causes skin irritation
Serious eye damage/eye irritation Category 2A	Causes serious eye irritation
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) : Harmful if swallowed  
Causes skin irritation  
Causes serious eye irritation  
Precautionary statements (GHS US) : Wash hands, forearms and face thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective clothing, eye protection, face protection, protective gloves.  
If swallowed: Call a POISON CENTER if you feel unwell.  
Rinse mouth.  
If on skin: Wash with plenty of soap and water.  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.

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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

### Unknown acute toxicity (GHS US)

No additional information available

## SECTION 3: Composition/Information on ingredients

### Substances

Name	Product identifier	%	GHS US classification
Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid	CAS-No.: 94-75-7	10.48 – 11.58	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Dimethylamine Salt of Quinclorac (3,7-Dichloro-8-quinolinecarboxylic Acid)	CAS-No.: 84087-01-4	7.86 – 8.68	Skin Sens. 1, H317

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. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
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 out with water. 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/doctor/physician if you feel unwell.

### Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause moderate irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Ingestion may cause nausea and vomiting. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.
Most Important Symptoms/Effects	: Harmful if swallowed. Irritation to eyes, skin and respiratory tract.

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### Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
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. Thermal decomposition generates : Hydrogen chloride. Carbon dioxide. Carbon monoxide. Sulphur oxides. Hydrochloric acid.

### Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.  
Protection during firefighting : Self-contained breathing apparatus.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

General measures : Avoid all personal contact including breathing in the gas, mist, spray, vapors. Do not take actions involving personal risks.

### For non-emergency personnel

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

### For emergency responders

Protective equipment : Wear the recommended personal protective equipment.  
Emergency procedures : Evacuate personnel to a safe area. Ventilate spillage area.

### Environmental precautions

Do not let the product reach soil, drains, sewers, or surface and ground water.

### Methods and material for containment and cleaning up

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. 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. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

### Reference to other sections

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

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### SECTION 7: Handling and storage

#### Precautions for safe handling

- Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Use only outdoors or in a well-ventilated area.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

- Storage conditions : Store locked up. Keep only in the original container in a cool, well ventilated place away from : Heat sources.

### SECTION 8: Exposure controls/personal protection

#### Control parameters

#### Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid (94-75-7)

##### USA - ACGIH - Occupational Exposure Limits

Local name	2,4-D
ACGIH OEL TWA	10 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: Thyroid eff; kidney tubular dam. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2024

##### USA - OSHA - Occupational Exposure Limits

Local name	2,4-D (Dichlorophen-oxyacetic acid)
OSHA PEL TWA	10 mg/m <sup>3</sup>
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

#### Appropriate engineering controls

- Appropriate engineering controls : Use general ventilation, local exhaust ventilation or process enclosure to keep the airborne concentrations below the permissible exposure limits.
- Environmental exposure controls : Avoid release to the environment. Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.

#### 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.

<b>Hand protection:</b>
Protective gloves
<b>Eye protection:</b>
Chemical goggles or face shield
<b>Skin and body protection:</b>
Long sleeved protective clothing. Chemical resistant safety shoes. Chemical-resistant headgear for overhead exposures

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### Respiratory protection:

No respiratory protection needed under normal use conditions. If vapors or mists exceed acceptable levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Physical state	: Liquid.
Appearance	: Liquid.
Color	: Dark amber
Odor	: Sweet Mild odor
Odor threshold	: No data available
pH	: 7.23
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 110 °C (217.4 °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	: No data available
Relative density	: No data available
Density	: 1.128 g/ml (20 °C/ 68 °F)
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 5.09 mm <sup>2</sup> /s (40 °C/ 104 °F)
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.
- Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.
- Conditions to avoid : None under recommended storage and handling conditions (see section 7).
- Incompatible materials : Strong acids. Strong bases. Oxidizing agents.
- Hazardous decomposition products : Thermal decomposition generates : Under normal conditions of storage and use, hazardous decomposition products should not be produced. Nitrogen oxides. Carbon dioxide. Carbon monoxide.

### SECTION 11: Toxicological information

#### Information on toxicological effects

- Acute toxicity (oral) : Harmful if swallowed.
- Acute toxicity (dermal) : Not classified
- Acute toxicity (inhalation) :

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LD50 oral rat	> 1750 – 5000 mg/kg body weight
LD50 dermal rat	> 5000 mg/kg body weight
LC50 Inhalation - Rat	> 2.07 mg/l/4h No deaths occurred

- Skin corrosion/irritation : Causes skin irritation. Irritating to rabbits on cutaneous application  
pH: 7.23
- Serious eye damage/irritation : Causes serious eye irritation. Severely irritating to rabbits on ocular application  
pH: 7.23
- Respiratory or skin sensitization : Not classified. 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 : Not classified
- Aspiration hazard : Not classified
- Viscosity, kinematic : 5.09 mm<sup>2</sup>/s (40 °C/ 104 °F)
- Symptoms/effects after inhalation : May cause respiratory irritation.
- Symptoms/effects after skin contact : May cause moderate irritation.
- Symptoms/effects after eye contact : Causes serious eye irritation.
- Symptoms/effects after ingestion : Ingestion may cause nausea and vomiting. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.
- Most Important Symptoms/Effects : Harmful if swallowed. Irritation to eyes, skin and respiratory tract.

### SECTION 12: Ecological information

#### Toxicity

- Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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### 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.  
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.  
Ecological information : Avoid release to the environment.

## SECTION 14: Transport information

DOT:

< 89 Gallons per complete package:

Not regulated

≥ 89 Gallons per complete package:

UN 3082, Environmentally hazardous substances, liquid, n.o.s., (2,4-D Amine) 9, III, RQ

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
<b>UN number</b>		
Not regulated for transport		
<b>Proper Shipping Name</b>		
Not regulated	Not regulated	Not regulated
<b>Transport hazard class(es)</b>		
Not regulated	Not regulated	Not regulated
<b>Packing group</b>		
Not regulated	Not regulated	Not regulated
<b>Environmental hazards</b>		
Not regulated	Not regulated	Not regulated
No supplementary information available		

### Special precautions for user

**DOT**

Not regulated

**IMDG**

Not regulated

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### IATA

Not regulated

### 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:

Dimethylamine Salt of Quinclorac (3,7-Dichloro-8-quinolinecarboxylic Acid)	CAS-No. 84087-01-4	7.86 – 8.68%
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Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid	CAS-No. 94-75-7	10.48 – 11.58%
Triethylamine salt of Triclopyr	CAS-No. 57213-69-1	3.46%
Dimethylamine	CAS-No. 124-40-3	4.2%

### Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid (94-75-7)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	100 lb
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### 15.2. International regulations

#### CANADA

### Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid (94-75-7)

Listed on the Canadian DSL (Domestic Substances List)

### Dimethylamine Salt of Quinclorac (3,7-Dichloro-8-quinolinecarboxylic Acid) (84087-01-4)

Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

No additional information available

### National regulations

### Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid (94-75-7)

Listed on IARC (International Agency for Research on Cancer)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 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



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### SECTION 16: Other information

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Revision date : 1/11/2024

Full text of H-phrases	
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H401	Toxic to aquatic life
H412	Harmful 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.