

SP 4WAY

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 06/06/2024

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Version: 1.2

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : SP 4WAY
Product code : M80593

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Herbicide

1.3. Supplier

Simplot AB Retail, Inc., DBA Simplot Turf and Horticulture
P.O. Box 9296
Boise, ID 83707

1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H319 - Causes serious eye irritation
Harmful if swallowed
H332 - Harmful if inhaled
H361 - Suspected of damaging fertility or the unborn child

Precautionary statements (GHS US) :

Wear protective gloves, protective clothing.
P264 - Wash hands, forearms and face thoroughly after handling.
Avoid breathing dust, mist or spray
P271 - Use only outdoors or in a well-ventilated area.
Do not eat, drink or smoke when using this product.
P202 - Do not handle until all safety precautions have been read and understood.
P308+P313 - If exposed or concerned: Get medical advice/attention.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P330 - Rinse mouth.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Proprietary*	(CAS-No.) Not Applicable	>25	Not classified

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Name	Product identifier	%	GHS US classification
2,4-D, dimethylamine salt	(CAS-No.) 2008-39-1	17.41-19.25	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351
MCPA-dimethylammonium	(CAS-No.) 2039-46-5	6.32-6.98	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318
1-methyl-2-pyrrolidone	(CAS-No.) 872-50-4	4.75-5.25	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
3,6-dichloro-o-anisic acid, compound with dimethylamine (1:1)	(CAS-No.) 2300-66-5	2.74-3.02	Eye Irrit. 2A, H319 Aquatic Chronic 3, H412
sulfentrazone	(CAS-No.) 122836-35-5	.58-.72	Not classified

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

SECTION 4: First-aid measures

4.1. Description of first aid measures

4.2. Most important symptoms and effects (acute and delayed)

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

5.2. Specific hazards arising from the chemical

5.3. Special protective equipment and precautions for fire-fighters

No additional information available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

7.2. Conditions for safe storage, including any incompatibilities

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available
2,4-D, dimethylamine salt (2008-39-1)
No additional information available
MCPA-dimethylammonium (2039-46-5)
No additional information available
3,6-dichloro-o-anisic acid, compound with dimethylamine (1:1) (2300-66-5)
No additional information available
1-methyl-2-pyrrolidone (872-50-4)
No additional information available
sulfentrazone (122836-35-5)
No additional information available
Proprietary* (Not Applicable)
No additional information available

8.2. Appropriate engineering controls

8.3. Individual protection measures/Personal protective equipment

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Mixture contains one or more component(s) which have the following colour(s): White No data available on colour Colorless Colourless to light yellow
Odor	: There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: Odourless No data available on odour Mild odour Amine-like odour Smell of fish
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
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

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

2,4-D, dimethylamine salt (2008-39-1)	
LD50 oral rat	625 mg/kg (Rat)
LD50 dermal rabbit	2115 mg/kg (Rabbit)

1-methyl-2-pyrrolidone (872-50-4)	
LD50 oral rat	4150 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 5000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (mg/l)	> 5.1 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

2,4-D, dimethylamine salt (2008-39-1)	
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

1-methyl-2-pyrrolidone (872-50-4)	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

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SECTION 12: Ecological information

12.1. Toxicity

2,4-D, dimethylamine salt (2008-39-1)	
LC50 fish 1	> 100 mg/l (LC50; 96 h)
LC50 other aquatic organisms 1	4 mg/l (48 h; Daphnia magna)
1-methyl-2-pyrrolidone (872-50-4)	
LC50 fish 1	> 500 mg/l (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Lethal)
EC50 Daphnia 1	> 1000 mg/l (DIN 38412-11, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Lethal)
ErC50 (algae)	600.5 mg/l (DIN 38412-9, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)

12.2. Persistence and degradability

2,4-D, dimethylamine salt (2008-39-1)	
Persistence and degradability	Not readily biodegradable in water. Not established.
MCPA-dimethylammonium (2039-46-5)	
Persistence and degradability	Not established.
3,6-dichloro-o-anisic acid, compound with dimethylamine (1:1) (2300-66-5)	
Persistence and degradability	May cause long-term adverse effects in the environment.
1-methyl-2-pyrrolidone (872-50-4)	
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.07 g O ₂ /g substance
Chemical oxygen demand (COD)	1.56 g O ₂ /g substance
ThOD	1.9 g O ₂ /g substance
Proprietary* (Not Applicable)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

2,4-D, dimethylamine salt (2008-39-1)	
BCF fish 1	0.1 (BCF)
BCF fish 2	0.47 (BCF)
Partition coefficient n-octanol/water (Log Pow)	0.65 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500). Not established.
MCPA-dimethylammonium (2039-46-5)	
Bioaccumulative potential	Not established.
3,6-dichloro-o-anisic acid, compound with dimethylamine (1:1) (2300-66-5)	
Bioaccumulative potential	Not established.
1-methyl-2-pyrrolidone (872-50-4)	
Partition coefficient n-octanol/water (Log Pow)	-0.46 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Not bioaccumulative.
Proprietary* (Not Applicable)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

1-methyl-2-pyrrolidone (872-50-4)	
Surface tension	No data available in the literature
Partition coefficient n-octanol/water (Log Koc)	0.87 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Ecology - soil	Highly mobile in soil.

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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

No additional information available

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

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All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

2,4-D, dimethylamine salt	CAS-No. 2008-39-1	17.41-19.25%
MCPA-dimethylammonium	CAS-No. 2039-46-5	6.32-6.98%
3,6-dichloro-o-anisic acid, compound with dimethylamine (1:1)	CAS-No. 2300-66-5	2.74-3.02%
1-methyl-2-pyrrolidone	CAS-No. 872-50-4	4.75-5.25%
sulfentrazone	CAS-No. 122836-35-5	.58-.72%
Proprietary*	CAS-No. Not Applicable	>25%

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.

3,6-dichloro-o-anisic acid, compound with dimethylamine (1:1)	CAS-No. 2300-66-5	2.74-3.02%
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15.2. International regulations

CANADA

Proprietary* (Not Applicable)

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

Component	State or local regulations
3,6-dichloro-o-anisic acid, compound with dimethylamine (1:1)(2300-66-5)	U.S. - New Jersey - Right to Know Hazardous Substance List

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SECTION 16: Other information

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Full text of H-phrases:

H227	Combustible liquid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H412	Harmful to aquatic life with long lasting effects

SDS US (GHS HazCom 2012)

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.