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SECTION 1. Identification of the	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Best One-shot
Product code	: M770349
	e substance or mixture and uses advised against
1.3. Details of the supplier of the sa	afety data sheet
JR Simplot Company Boise, ID 83707 T 1-208-336-2110	
1.4. Emergency telephone number	
Emergency number	: CHEMTREC 1-800-424-9300
SECTION 2: Hazards identificati	on
2.1. Classification of the substance	
Classification (GHS-US)	
Skin Irrit. 2 H315 Eye Dam. 1 H318 Skin Sens. 1 H317 Carc. 2 H351 STOT SE 3 H335	
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
	GHS05 GHS07 GHS08
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	<ul> <li>H315 - Causes skin irritation</li> <li>H317 - May cause an allergic skin reaction</li> <li>H318 - Causes serious eye damage</li> <li>H335 - May cause respiratory irritation</li> <li>H351 - Suspected of causing cancer</li> </ul>
Precautionary statements (GHS-US)	<ul> <li>P201 - Obtain special instructions before use</li> <li>P202 - Do not handle until all safety precautions have been read and understood</li> <li>P261 - Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>P264 - Wash thoroughly after handling</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P272 - Contaminated work clothing must not be allowed out of the workplace</li> </ul>

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P501 - Dispose of contents/container to ... specify in accordance with local/regional/national regulations

## 2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

# No data available

# **SECTION 3: Composition/information on ingredients**

## 3.1. Substance

### Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
ammonium sulfate	(CAS No) 7783-20-2		Eye Irrit. 2B, H320 STOT SE 3, H335
diammoniumhydrogenphosphate	(CAS No) 7783-28-0		Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
Iron Oxysulfate			Eye Irrit. 2B, H320
potassium chloride	(CAS No) 7447-40-7		Not classified
2,4-dichlorophenoxyacetic acid	(CAS No) 94-75-7		Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 Aquatic Chronic 3, H412
dicamba	(CAS No) 1918-00-9		Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Dithiopyr	(CAS No) 97886-45-8		Not classified
mecoprop-P	(CAS No) 16484-77-8		Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 2, H411

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general :	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation :	Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact :	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact :	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion :	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effects	, both acute and delayed
Symptoms/injuries :	Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Indication of any immediate medical a	ttention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media :	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media :	Do not use a heavy water stream.
5.2. Special hazards arising from the subs	tance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions :	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

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Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective eq	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notif	fy authorities if liquid enters sewers or public waters.
6.3. Methods and material for containme	ent and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.
6.4. Reference to other sections	
See Heading 8. Exposure controls and personal	I protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
7.2. Conditions for safe storage, includi	
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
7.3. Specific end use(s)	
No additional information available	
<b>SECTION 8: Exposure controls/pers</b>	onal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Personal protective equipment Hand protection	: Avoid all unnecessary exposure.
	: Wear protective gloves.
Eye protection	<ul><li>Wear protective gloves.</li><li>Chemical goggles or safety glasses.</li></ul>
Eye protection Respiratory protection	<ul> <li>Wear protective gloves.</li> <li>Chemical goggles or safety glasses.</li> <li>Wear appropriate mask.</li> </ul>
Eye protection Respiratory protection Other information	<ul> <li>Wear protective gloves.</li> <li>Chemical goggles or safety glasses.</li> <li>Wear appropriate mask.</li> <li>Do not eat, drink or smoke during use.</li> </ul>
Eye protection Respiratory protection Other information SECTION 9: Physical and chemical	<ul> <li>Wear protective gloves.</li> <li>Chemical goggles or safety glasses.</li> <li>Wear appropriate mask.</li> <li>Do not eat, drink or smoke during use.</li> </ul>
Eye protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and c	<ul> <li>Wear protective gloves.</li> <li>Chemical goggles or safety glasses.</li> <li>Wear appropriate mask.</li> <li>Do not eat, drink or smoke during use.</li> </ul> properties chemical properties
Eye protection Respiratory protection Other information SECTION 9: Physical and chemical [ 9.1. Information on basic physical and c Physical state	<ul> <li>Wear protective gloves.</li> <li>Chemical goggles or safety glasses.</li> <li>Wear appropriate mask.</li> <li>Do not eat, drink or smoke during use.</li> </ul> properties chemical properties <ul> <li>Solid</li> </ul>
Eye protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and c Physical state Appearance	<ul> <li>Wear protective gloves.</li> <li>Chemical goggles or safety glasses.</li> <li>Wear appropriate mask.</li> <li>Do not eat, drink or smoke during use.</li> </ul> properties chemical properties <ul> <li>Solid</li> <li>Dark grey granules.</li> </ul>
Eye protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and c Physical state Appearance Color	<ul> <li>Wear protective gloves.</li> <li>Chemical goggles or safety glasses.</li> <li>Wear appropriate mask.</li> <li>Do not eat, drink or smoke during use.</li> </ul> properties chemical properties <ul> <li>Solid</li> <li>Dark grey granules.</li> <li>Dark Gray</li> </ul>
Eye protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and c Physical state Appearance Color Odor	<ul> <li>Wear protective gloves.</li> <li>Chemical goggles or safety glasses.</li> <li>Wear appropriate mask.</li> <li>Do not eat, drink or smoke during use.</li> </ul> properties chemical properties <ul> <li>Solid</li> <li>Dark grey granules.</li> <li>Dark Gray</li> <li>Slight Acidic</li> </ul>
Eye protection Respiratory protection Other information SECTION 9: Physical and chemical ( 9.1. Information on basic physical and c Physical state Appearance Color Odor Odor threshold	<ul> <li>Wear protective gloves.</li> <li>Chemical goggles or safety glasses.</li> <li>Wear appropriate mask.</li> <li>Do not eat, drink or smoke during use.</li> </ul> properties chemical properties <ul> <li>Solid</li> <li>Dark grey granules.</li> <li>Dark Gray</li> <li>Slight Acidic</li> <li>No data available</li> </ul>
Eye protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and c Physical state Appearance Color Odor Odor threshold pH	<ul> <li>Wear protective gloves.</li> <li>Chemical goggles or safety glasses.</li> <li>Wear appropriate mask.</li> <li>Do not eat, drink or smoke during use.</li> </ul> properties chemical properties <ul> <li>Solid</li> <li>Dark grey granules.</li> <li>Dark Gray</li> <li>Slight Acidic</li> </ul>
Eye protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and c Physical state Appearance Color Odor Odor threshold pH Relative evaporation rate (butyl acetate=1)	<ul> <li>Wear protective gloves.</li> <li>Chemical goggles or safety glasses.</li> <li>Wear appropriate mask.</li> <li>Do not eat, drink or smoke during use.</li> </ul> properties chemical properties <ul> <li>Solid</li> <li>Dark grey granules.</li> <li>Dark Gray</li> <li>Slight Acidic</li> <li>No data available</li> <li>No data available</li> </ul>
Eye protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and c Physical state Appearance Color Odor Odor Odor threshold pH Relative evaporation rate (butyl acetate=1) Melting point	<ul> <li>Wear protective gloves.</li> <li>Chemical goggles or safety glasses.</li> <li>Wear appropriate mask.</li> <li>Do not eat, drink or smoke during use.</li> </ul> <b>properties chemical properties</b> <ul> <li>Solid</li> <li>Dark grey granules.</li> <li>Dark Gray</li> <li>Slight Acidic</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> </ul>
Eye protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and c Physical state Appearance Color Odor Odor Odor threshold pH Relative evaporation rate (butyl acetate=1)	<ul> <li>Wear protective gloves.</li> <li>Chemical goggles or safety glasses.</li> <li>Wear appropriate mask.</li> <li>Do not eat, drink or smoke during use.</li> </ul> <b>properties chemical properties</b> <ul> <li>Solid</li> <li>Dark grey granules.</li> <li>Dark Gray</li> <li>Slight Acidic</li> <li>No data available</li> </ul>

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Auto-ignition temperature	: No data available
Decomposition temperature	: 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
Density	: 63 lbs/ft^3
Solubility	<ul> <li>Water: Solubility in water of component(s) of the mixture :</li> <li>•: 0.06 g/100ml</li> <li>•: 0.6 g/100ml</li> <li>•: 77 g/100ml</li> <li>•: 57.5 g/100ml</li> <li>•: 34 g/100ml</li> </ul>
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable. Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Extremely high temperatures. Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Oxidizing agent. Prolonged contact may cause oxidation of unprotected metals. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Extremely high temperatures. The product may reach melting point and decompose to release NH3, SOx, POx, or CN. fume. Carbon monoxide. Carbon dioxide.

### **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity

: Not classified

2,4-dichlorophenoxyacetic acid (94-75-7)		
LD50 oral rat	630-774,Rat; Other; Experimental value; 375 mg/kg; Rat	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Experimental value; Other)	
ATE US (oral)	500.0000000 mg/kg body weight	
dicamba (1918-00-9)		
LD50 oral rat	1039 mg/kg (Rat)	
LD50 dermal rat	2000 mg/kg (Rat)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)	
ATE US (oral)	1039.0000000 mg/kg body weight	
ATE US (dermal)	2000.0000000 mg/kg body weight	
Dithiopyr (97886-45-8)		
LD50 oral rat	≥ 5000 mg/kg	
LD50 dermal rat	> 5000 mg/kg	
ATE US (oral)	5000.0000000 mg/kg body weight	

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ammonium sulfate (7783-20-2)	
LD50 oral rat	2840 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg
ATE US (oral)	2840.0000000 mg/kg body weight
potassium chloride (7447-40-7)	
LD50 oral rat	2600 mg/kg (Rat)
ATE US (oral)	2600.0000000 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Suspected of causing cancer.
2,4-dichlorophenoxyacetic acid (94-75-7)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated	: Not classified
exposure)	Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
•	Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

### **Environmental Hazards**

This pesticide may be toxic to fish and aquatic invertebrates and may adversely affect non-target plants. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate. This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

12.1. Toxicity

2,4-dichlorophenoxyacetic acid (94-75-7)	
LC50 fish 1	31 - 96 mg/l (96 h; Cyprinus carpio)
EC50 Daphnia 1	90 mg/l (48 h; Daphnia magna)
LC50 fish 2	82 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
TLM fish 1	375 mg/l (48 h; Lepomis macrochirus)
Threshold limit algae 1	< 0.1 mg/l (Scenedesmus quadricauda; Chronic)
Threshold limit algae 2	26.4 mg/l (120 h; Selenastrum capricornutum; Growth rate)
dicamba (1918-00-9)	
LC50 fish 1	23 mg/l (96 h; Lepomis macrochirus)
LC50 other aquatic organisms 1	10 - 100 mg/l (96 h)
EC50 Daphnia 1	> 100 mg/l (48 h; Daphnia magna; Locomotor effect)
LC50 fish 2	28 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
TLM fish 1	40 ppm (48 h; Lepomis macrochirus)
TLM fish 2	35 ppm 48 h; Salmo gairdneri (Oncorhynchus mykiss)
Threshold limit other aquatic organisms 1	10 - 100,96 h
ammonium sulfate (7783-20-2)	
LC50 fish 1	126 mg/l (96 h; Poecilia reticulata)
EC50 Daphnia 1	202 mg/l (96 h; Daphnia magna)
LC50 fish 2	250 - 480 mg/l (96 h; Brachydanio rerio)
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ammonium sulfate (7783-20-2)	
EC50 Daphnia 2	422  mg/(50  h) Dephasis magnet
TLM fish 1	433 mg/l (50 h; Daphnia magna) 1290 ppm (96 h; Gambusia affinis)
diammoniumhydrogenphosphate (7783-	,
LC50 fish 1	155 ppm (96 h; Pimephales promelas)
TLM fish 1	100 - 1000,96 h; Pisces
TLM other aquatic organisms 1	100 - 1000,96 h
potassium chloride (7447-40-7)	
LC50 fish 1	920 mg/l (96 h; Gambusia affinis; Static system)
EC50 Daphnia 1	630 mg/l (48 h; Ceriodaphnia dubia)
LC50 fish 2	2010 mg/l (96 h; Lepomis macrochirus; Static system)
EC50 Daphnia 2	660 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	850 mg/l (72 h; Scenedesmus subspicatus)
Threshold limit algae 2	> 100 mg/l (72 h; Scenedesmus subspicatus; GLP)
2.2. Persistence and degradability	
Best One-shot	Not established.
Persistence and degradability	
2,4-dichlorophenoxyacetic acid (94-75-7	•
Persistence and degradability	Readily biodegradable in water. Inhibition of nitrification. Biodegradable in the soil. No (test)data on mobility of the substance available. May cause long-term adverse effects in the environment.
dicamba (1918-00-9)	
Persistence and degradability	May cause long-term adverse effects in the environment.
	.,
ammonium sulfate (7783-20-2)	
Persistence and degradability	Biodegradability in water: no data available. Not established.
diammoniumhydrogenphosphate (7783-	-28-0)
diammoniumhydrogenphosphate (7783) Persistence and degradability	-28-0) Biodegradability in water: no data available. Not established.
Persistence and degradability	
Persistence and degradability potassium chloride (7447-40-7)	Biodegradability in water: no data available. Not established.
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability	Biodegradability in water: no data available. Not established.         Biodegradability: not applicable. Not established.
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability Biochemical oxygen demand (BOD)	Biodegradability in water: no data available. Not established.         Biodegradability: not applicable. Not established.         Not applicable
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability	Biodegradability in water: no data available. Not established.         Biodegradability: not applicable. Not established.         Not applicable         Not applicable
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD	Biodegradability in water: no data available. Not established.         Biodegradability: not applicable. Not established.         Not applicable         Not applicable         Not applicable         Not applicable
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD)	Biodegradability in water: no data available. Not established.         Biodegradability: not applicable. Not established.         Not applicable         Not applicable
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) Iron Oxysulfate	Biodegradability in water: no data available. Not established.         Biodegradability: not applicable. Not established.         Not applicable
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD)	Biodegradability in water: no data available. Not established.         Biodegradability: not applicable. Not established.         Not applicable         Not applicable         Not applicable         Not applicable
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) Iron Oxysulfate Persistence and degradability	Biodegradability in water: no data available. Not established.         Biodegradability: not applicable. Not established.         Not applicable
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) Iron Oxysulfate Persistence and degradability	Biodegradability in water: no data available. Not established.         Biodegradability: not applicable. Not established.         Not applicable
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) Iron Oxysulfate Persistence and degradability 2.3. Bioaccumulative potential	Biodegradability in water: no data available. Not established.         Biodegradability: not applicable. Not established.         Not applicable
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) Iron Oxysulfate Persistence and degradability 2.3. Bioaccumulative potential Best One-shot Bioaccumulative potential	Biodegradability in water: no data available. Not established.         Biodegradability: not applicable. Not established.         Not applicable         Not applicable         Not applicable         Not applicable         Not established.
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) Iron Oxysulfate Persistence and degradability 2.3. Bioaccumulative potential Best One-shot Bioaccumulative potential 2,4-dichlorophenoxyacetic acid (94-75-7	Biodegradability in water: no data available. Not established. Biodegradability: not applicable. Not established. Not applicable Not applicable Not applicable Not established. Not established. Not established.
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) Iron Oxysulfate Persistence and degradability 2.3. Bioaccumulative potential Best One-shot Bioaccumulative potential 2,4-dichlorophenoxyacetic acid (94-75-7 BCF fish 1	Biodegradability in water: no data available. Not established. Biodegradability: not applicable. Not established. Not applicable Not applicable Not applicable Not established.  Not established.  // < 10 (3 days; Leuciscus idus)
Persistence and degradability         potassium chloride (7447-40-7)         Persistence and degradability         Biochemical oxygen demand (BOD)         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD)         Iron Oxysulfate         Persistence and degradability         2.3.       Bioaccumulative potential         Best One-shot         Bioaccumulative potential         2,4-dichlorophenoxyacetic acid (94-75-7         BCF fish 1         BCF other aquatic organisms 1	Biodegradability in water: no data available. Not established. Biodegradability: not applicable. Not established. Not applicable Not applicable Not applicable Not established.  Not established.  Y
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) Iron Oxysulfate Persistence and degradability 2.3. Bioaccumulative potential Best One-shot Bioaccumulative potential 2,4-dichlorophenoxyacetic acid (94-75-7 BCF fish 1	Biodegradability in water: no data available. Not established. Biodegradability: not applicable. Not established. Not applicable Not applicable Not applicable Not established.  Not established.  // < 10 (3 days; Leuciscus idus)
Persistence and degradability         potassium chloride (7447-40-7)         Persistence and degradability         Biochemical oxygen demand (BOD)         Chemical oxygen demand (COD)         ThOD         BOD (% of ThOD)         Iron Oxysulfate         Persistence and degradability         2.3.       Bioaccumulative potential         Best One-shot         Bioaccumulative potential         2,4-dichlorophenoxyacetic acid (94-75-7         BCF fish 1         BCF other aquatic organisms 1	Biodegradability in water: no data available. Not established. Biodegradability: not applicable. Not established. Not applicable Not applicable Not applicable Not established.  Not established.
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) Iron Oxysulfate Persistence and degradability 2.3. Bioaccumulative potential Best One-shot Bioaccumulative potential 2,4-dichlorophenoxyacetic acid (94-75-7 BCF fish 1 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential	Biodegradability in water: no data available. Not established. Biodegradability: not applicable. Not established. Not applicable Not applicable Not applicable Not established.  Not established.
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) Iron Oxysulfate Persistence and degradability 2.3. Bioaccumulative potential Best One-shot Bioaccumulative potential 2,4-dichlorophenoxyacetic acid (94-75-7 BCF fish 1 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential dicamba (1918-00-9)	Biodegradability in water: no data available. Not established.         Biodegradability: not applicable. Not established.         Not applicable         Not established.
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) Iron Oxysulfate Persistence and degradability 2.3. Bioaccumulative potential Best One-shot Bioaccumulative potential 2,4-dichlorophenoxyacetic acid (94-75-7 BCF fish 1 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential dicamba (1918-00-9) Log Pow	Biodegradability in water: no data available. Not established.         Biodegradability: not applicable. Not established.         Not applicable         Not established.         // </td
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) Iron Oxysulfate Persistence and degradability 2.3. Bioaccumulative potential Best One-shot Bioaccumulative potential 2,4-dichlorophenoxyacetic acid (94-75-7 BCF fish 1 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential dicamba (1918-00-9)	Biodegradability in water: no data available. Not established.         Biodegradability: not applicable. Not established.         Not applicable         Not established.
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) Iron Oxysulfate Persistence and degradability 2.3. Bioaccumulative potential Best One-shot Bioaccumulative potential 2,4-dichlorophenoxyacetic acid (94-75-7 BCF fish 1 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential dicamba (1918-00-9) Log Pow	Biodegradability in water: no data available. Not established.         Biodegradability: not applicable. Not established.         Not applicable         Not established.         // </td
Persistence and degradability potassium chloride (7447-40-7) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) Iron Oxysulfate Persistence and degradability 2.3. Bioaccumulative potential Best One-shot Bioaccumulative potential 2,4-dichlorophenoxyacetic acid (94-75-7 BCF fish 1 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential dicamba (1918-00-9) Log Pow Bioaccumulative potential	Biodegradability in water: no data available. Not established.         Biodegradability: not applicable. Not established.         Not applicable         Not established.         // </td

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diammoniumhydrogenphosphate (7783-28-	0)	
Bioaccumulative potential	No bioaccumulation data available. Not established.	
potassium chloride (7447-40-7)		
Log Pow	-0.46 (Estimated value)	
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.	
Iron Oxysulfate		
Bioaccumulative potential	Not established.	
12.4. Mobility in soil dicamba (1918-00-9)		
Ecology - soil	Not toxic to bees.	
12.5. Other adverse effects		
Effect on ozone layer	: No additional information available	
Effect on the global warming	: No known ecological damage caused by this product.	
	. No known coological damage caused by this product.	
Other information	: Avoid release to the environment.	

# **SECTION 13: Disposal considerations**

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Keep in original container in a cool, dry area, away from extreme heat and direct sunlight. Do not store near food, feed, seeds or other pesticides

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Paper and plastic bags: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### Waste treatment methods 13.1.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. : Avoid release to the environment.

Ecology - waste materials

**SECTION 14: Transport information** In accordance with DOT Not regulated for transport **Additional information** Other information : No supplementary information available.

#### ADR

Transport document description

#### Transport by sea

No additional information available

#### Air transport

No additional information available

#### **SECTION 15: Regulatory information**

This chemical is a pesticide product registered by 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. The pesticide label also includes other important information, including directions for use.

#### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

CAUTION: Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

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#### 15.1. US Federal regulations

#### Best One-shot

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory except for:

dicamba	CAS No 1918-00-9
Dithiopyr	CAS No 97886-45-8
mecoprop-P	CAS No 16484-77-8
Iron Oxysulfate	CAS No

This product or mixture does not 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.

2,4-dichlorophenoxyacetic acid (94-75-7)		
Listed on United States SARA Section 313 Not listed on the United States SARA Section 313		
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	100 lb	
dicamba (1918-00-9)		
Not listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313		
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	1000 lb	
Dithiopyr (97886-45-8)		
Not listed on the United States TSCA (Toxic Substances Control Act) inventory		
Iron Oxysulfate		
Not listed on the United States TSCA (Toxic Substances Control Act) inventory		

### 15.2. International regulations

**CANADA** 

No additional information available

#### **EU-Regulations**

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

#### 15.2.2. 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 and/or reproductive harm

# 2,4-dichlorophenoxyacetic acid (94-75-7)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

### dicamba (1918-00-9)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

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SECTION 16: Other information	
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: None.

Full text of H-phrases: see section 16:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
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
H320	Causes eye irritation
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

SDS US (GHS HazCom 2012)

Disclaimer: This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE INFORMATION HEREIN PROVIDED. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.