

Issue Date 1-Nov-2013

Revision Date 1-Dec-2015

1. IDENTIFICATION

Product Identifier

Product Name 15-0-5 Fertilizer with Surge® Broadleaf Herbicide
Chemical Name EH-1413 Herbicide
EPA REG. No. 2217-882-69759-OR-002

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Weed and feed for lawn and landscape jobs.

Details of the Supplier of the Safety Data Sheet

Supplier Address

Marion Ag Service
7746 St. Paul Hwy N.E.
St. Paul, OR 97137

Emergency Telephone Number

Company Phone Number 503-633-4561
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to 29 CFR 1910.1200

Acute Toxicity (Oral)	Category 4
Acute Toxicity (Inhalation dusts/mists)	Category 4
Serious eye damage/eye irritation	Category 1

Label elements



Signal Word:

WARNING

Hazard Statement H303 – Maybe harmful if swallowed.
H312 – Harmful in contact with skin

Precautionary Statement: P264 – Wash face, hands and any exposed skin thoroughly after handling.
(Prevention): P270 – Don not eat, drink or smoke when using this product.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement: P302+P352 – IF ON SKIN: Wash with plenty of soap and water.
(Response): P312 – Call a POISON CENTER or doctor/physician if you feel unwell.
P363 – Wash contaminated clothing before reuse.
P301+P312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 – Rinse mouth.

Precautionary Statement: (Disposal): P501 – dispose of contents/container to an approved waste disposal plant.

Other hazards

Hazards not otherwise classified (HNOC): FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565
Take container, label or product name with you when seeking medical attention.



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KEEP OUT OF REACH OF CHILDREN

Appearance and odor: Multi-colored granules with slight odor.

WARNING

Potential Health effects

Routes of exposure Eye contact, skin contact, inhalation. Avoid breathing dusts.

Eyes No data available.

Skin Harmful in contact with skin.

Inhalation May be harmful if inhaled.

Ingestion May be harmful if swallowed.

Target organs

Skin, Eyes, Inhalation.

Signs and symptoms

Harmful if absorbed through skin.

Potential environmental effects This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have harmful or damaging effect on the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight%
Urea	57-13-6	30-40
Muriate of Potash/Potassium Chloride	7447-40-7	15-25
Digested Sewage Sludge (Class A Biosolids)	NA	30-50
2,4-D, 2-ethylhexyl ester	1928-43-4	1-5
3,6-Dichloro-o-anisic acid (Dicamba)	1918-00-9	1-5
R(+)-2(2-methyl-4-chlorophenoxy)propionic acid (MCPP)	16484-77-8	1-5
Sulfentrazone	122836-35-5	1-5

4. FIRST AID MEASURES

First Aid Measures

Inhalation: Move person to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call a poison control center or doctor for further advice.

Eye Contact: Rinse. Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.

Ingestion: Call poison control center or doctor immediately for treatment advice. Have person sip glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Skin Contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565. Have the product label or container with you when calling a poison control center or doctor, or going for treatment.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

When heated to decomposition, it emits acrid smoke and irritating fumes.

Hazardous combustion products May include but are not limited to oxides of carbon, Hydrogen chloride, hydrogen fluoride, oxides of nitrogen, ammonia, oxides of phosphorus, oxides of sulfur, hydrogen sulfate.



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Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment as required.
Environmental Precautions See Section 12 for additional ecological information.

Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Conditions for Safe Storage.

Requirements for Storage Areas and Containers: Keep/store in original container. Store locked up. Keep out of the reach of children. Do not contaminate water, food, or feed by storage or disposal.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous material with occupational exposure limits established by the region specific regulatory bodies.

Components	ACGIH TLV	OSHA PEL	NIOSH IDLH
2,4-D, 2-ethylhexyl ester CAS:1928-43-4	TWA:10mg/m ³ inhalable fraction S*	TWA:10mg/m ³	IDHL: 100 mg/m ³ , TWA:10 mg/m ³

Engineering Controls:

Provide adequate general and local exhaust ventilation. Observe Occupational exposure Limits and minimize the risk of inhalation of dusts and spray mists.

Individual Protection Measures:

Eye / Face Protection: Goggles or shielded safety glasses are recommended.

Skin Protection: Wear chemical-resistant gloves. Long-sleeved shirt, long pants, and socks.

Respiratory Protection: In case of inadequate ventilation on risk of inhalation on mists or vapors, use suitable respiratory equipment such as MSHA/NIOSH approved respirator with approved filter. Wear respiratory protection during operations where spraying or misting occurs. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory protection if exposure concentrations are unknown.

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Avoid contact with eyes.
Skin and Body Protection Wear suitable protective clothing.
Respiratory Protection Ensure adequate ventilation, especially in confined areas.
General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Solid	Odor	Dusty
Appearance	Multi-colored granules	Odor threshold	Not determined
Color	Multi-color		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not determined	
Melting point/freezing point	Not determined	
Boiling point/boiling range	Not determined	
Flash point	Not determined	
Evaporation rate	Not determined	
Flammability (solid, gas)	Not determined	
Flammability limits in air		
Upper flammability limits	Not determined	
Lower flammability limit	Not determined	
Vapor pressure	Not determined	
Vapor density	Not determined	
Specific gravity	Not determined	
Water solubility	Soluble in water	
Solubility in other solvents	Not determined	
Partition coefficient	Not determined	
Autoignition temperature	Not determined	
Decomposition temperature	Not determined	
Kinematic viscosity	Not determined	
Dynamic viscosity	Not determined	
Explosive properties	Not determined	
Oxidizing Properties	Not determined	

Other Information

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

No reactions known under normal use conditions. Will not polymerize.

Conditions to Avoid

Excessive heat, open flame, Other ignition sources.

Incompatible Materials

Caustics, acids, oxidizers, fluorine, metals.

Hazardous Decomposition Products

May include but are not limited to oxides of carbon, Hydrogen chloride, oxides of nitrogen, oxides of sulfur.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation	Avoid inhalation of dust.
Eye Contact	Severely irritating to eyes.
Skin Contact	Substance may cause slight skin irritation.
Ingestion	May be harmful if swallowed.

Information on Toxicological Effects



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Acute Toxicity: Harmful if swallowed

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified.

Carcinogenicity: Not classified.

Urea (57-13-6)	
ATE (Oral)	8471.000 mg/kg
Potassium chloride (7447-40-7)	
LD50 Oral Rat	2600 mg/kg
ATE (Oral)	2,600.00 mg/kg body weight

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity: These products do contain some carcinogens or potential carcinogens as listed by OSHA.
2,4-D, 2-ethylhexyl ester (1928-43-4) and R(+)-2(2-methyl-4-chlorophenoxy)propionic acid (MCPP) (16484-77-8)

Numerical Measures of Toxicity- Product Information

Unknown Acute Toxicity	1% of the mixture consists of ingredient(s) of unknown toxicity
Oral LD50	550 mg/kg rat-female
Dermal LD50	> 5000 mg/kg (rat)
Inhalation LC50	> 2.05 mg/L (rat)

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. This product has low solubility in water. At the limits of Solubility, this product is not toxic to fish. However, at concentrations above the levels of solubility it may be toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites.

Persistence and Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined.

Other Adverse Effects

Not determined



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13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal Recommendations: Pesticide: Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or on accordance with applicable federal, State or local procedures. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance and applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

14. TRANSPORT INFORMATION

Note	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances
DOT	Not regulated
IATA	Not regulated
IMDG	Not regulated

15. REGULATORY INFORMATION

International Inventories Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
TSCA,DSL,NDSL,EINECS/ELINS,ENCS,IECSC,KELC,PICCS, ALL NOT LISTED

NFPA & HMIS Hazard Ratings:	NFPA	HMIS	
	1 Health	0 Least	1 Health
	0 Flammability	1 Slight	0 Flammability
	0 Instability	2 Moderate	0 Reactivity
		3 High	B PPE
	4 Severe		

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate __N__ Fire __N__ Sudden Release of Pressure __N__
 Delayed __N__ Reactive __N__

Reportable Quantity (RQ) under U.S. CERCLA: 2,4-D (CAS:1928-43-4) 100lb. : Dicamba (CAS:1918-00-9) 1000lb.
 SARA, title III, Section 313: 2,4-D (CAS:1928-43-4) 0.1%:Dacamba (CAS:1918-00-9)1.0%
 RCRA Waste Code: D016; U240

CA Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

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.



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16. OTHER INFORMATION

Issue Date	1-Nov-2013
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Revision Note	New Format

Disclaimer

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Marion Ag Service Inc. | 7746 St Paul Hwy N.E. | Saint Paul, OR 97137

End of Safety Data Sheet