

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name Saddle-Up™

Other means of identification

Product Code(s) EPA Reg. No. 1381-255

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Agricultural Herbicide
See product label for complete list of uses and use sites.

Uses advised against See product label for information regarding restriction on the use of this product.

Supplier's details

Supplier Address
Manufactured For:
Winfield Solutions, LLC.
P.O. Box 64589
St. Paul, MN 55164-0589

For Non-Emergency Business Inquiries:
1-855-494-6343 Mon-Fri, 8am-5pm CST

Emergency telephone number

Emergency Telephone Number FOR MEDICAL EMERGENCY: 1-877-424-7452 (24hrs)
FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

Acute Oral Toxicity	Category 4
Serious Eye Damage/Eye Irritation	Category 1
Carcinogenicity	Category 2
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word Danger

Hazard Statements
• Harmful if swallowed
• Causes serious eye damage

- Suspected of causing cancer.
- May cause respiratory irritation



Appearance Amber, Transparent.

Physical State Liquid.

Odor Mild.

Precautionary Statements

Prevention

- Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.
- Wear eye/face protection.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.

General Advice

- If exposed or concerned: Get medical attention/advice

Eyes

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician.

Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Ingestion

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- Rinse mouth.

Storage

- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.

Disposal

- Dispose of contents/container to an approved waste disposal plant.

Hazard Not Otherwise Classified (HNOC)

Not applicable.

Other information

Harmful to aquatic life with long lasting effects.

0% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
2,4-D	94-75-7	32.4
Dicamba	1918-00-9	10.8

4. FIRST AID MEASURES

Description of necessary first-aid measures

General Advice	If exposed or concerned: Get medical attention/advice
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or Poison Control Center immediately.
Skin Contact	Wash off with warm water and soap. Consult a physician if necessary.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Consult a physician.
Ingestion	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Serious eye irritation or damage. Coughing and/ or wheezing. Difficulty in breathing.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray or fog is preferred; if water not available use dry chemical, CO₂ or regular foam. Small fires may be smothered with sand.

Unsuitable Extinguishing Media Do not scatter spilled material with high pressure water streams.

Specific Hazards Arising from the Chemical

No information available.

Explosion Data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

Protective Equipment and Precautions for Firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Refer to Section 8.

Environmental Precautions

Environmental Precautions Do not allow material to contaminate ground water system. Avoid release to the environment. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Prevent product from entering drains. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE**Precautions for safe handling**

Handling Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Conditions for safe storage, including any incompatibilities

Storage Keep in a dry, cool and well-ventilated place.

Incompatible Products Incompatible with oxidizing agents. Incompatible with strong acids and bases.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2,4-D 94-75-7	TWA: 10 mg/m ³ inhalable particulate matter S*	TWA: 10 mg/m ³ (vacated) TWA: 10 mg/m ³	IDLH: 100 mg/m ³ TWA: 10 mg/m ³

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tightly fitting safety goggles.
Skin and Body Protection Impervious gloves. Impervious clothing.
Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Provide regular cleaning of equipment, work area and clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use.
NOTE TO END USERS: Personal protection equipment (PPE) and clothing listed in this section is for manufacturing, commercial blending and packaging workers. Applicators and handlers should refer to the pesticide product label for proper personal protective equipment and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical State	Liquid.	Appearance	Amber, Transparent.
Odor	Mild.	Odor Threshold	No information available.

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	2.39	None known
Melting Point/Range	No data available	None known
Boiling Point/Boiling Range	No data available	None known
Flash Point	> 201 °F	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Specific Gravity	1.110 (9.26 #/gal)	None known
Water Solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known
Flammable Properties	Not flammable	
Explosive Properties	No data available	
Oxidizing Properties	No data available	

Other information

VOC Content (%) No data available

10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

None known based on information supplied.

Incompatible materials

Incompatible with oxidizing agents. Incompatible with strong acids and bases.

Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO₂). Thermal decomposition can lead to release of irritating gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation May cause irritation of respiratory tract.
Eye Contact Causes serious eye damage.
Skin Contact Not a skin irritant or sensitizer.
Ingestion Harmful if swallowed.

LD50 Oral: LD50 Oral: 1750 mg/kg (rat, 4 hr)
LD50 Dermal: > 5050 mg/kg (rabbit)
LC50 Inhalation: > 2.25 mg/L (rat, 4 hr)

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2,4-D	= 420 mg/kg (Rat) = 375 mg/kg (Rat)	= 1500 mg/kg (Rat)	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Causes serious eye damage. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Coughing and/ or wheezing.

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization Did not cause sensitization on laboratory animals.
Mutagenic Effects No information available.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
2,4-D		Group 2B		X

IARC: (International Agency for Research on Cancer)
 Group 2B - Possibly Carcinogenic to Humans

OSHA: (Occupational Safety & Health Administration)
 X - Present

Reproductive Toxicity No information available.
STOT - single exposure Contains a component known to cause systemic target organ toxicity from acute exposure.
STOT - repeated exposure Contains no ingredients above reportable quantities known to cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard No information available.

Numerical measures of toxicity - Product

Unknown acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 1750 mg/kg; Acute toxicity estimate
LD50 Dermal > 5050 mg/kg; Acute toxicity estimate

12. ECOLOGICAL INFORMATION**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
2,4-D 94-75-7	EC50 120 h: 20 - 52 mg/L static (Pseudokirchneriella subcapitata) EC50 96 h: 23.7 - 24.7 mg/L static (Pseudokirchneriella subcapitata)	LC50 96 h: 103 - 171 mg/L static (Pimephales promelas) LC50 96 h: 127.9 - 141.7 mg/L static (Cyprinus carpio) LC50 96 h: 2450 - 3160 mg/L flow-through (Oryzias latipes) LC50 96 h: 6.3 - 11.0 mg/L static (Poecilia reticulata) LC50 96 h: 77 - 157 mg/L static	EC50 = 5.74 mg/L 15 min	EC50 48 h: 17.6 - 32.6 mg/L Static (Daphnia magna) EC50 72 h: = 417.8 mg/L (Daphnia magna)

		(Oncorhynchus mykiss) LC50 96 h: = 165 mg/L flow-through (Pimephales promelas) LC50 96 h: = 180 mg/L static (Lepomis macrochirus) LC50 96 h: = 20 mg/L semi-static (Cyprinus carpio) LC50 96 h: = 70.7 mg/L (Poecilia reticulata)		
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Persistence and Degradability No information available.

Bioaccumulation

Chemical Name	Log Pow
2,4-D	2.83

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Do not re-use empty containers.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
2,4-D - 94-75-7	U240	Included in waste stream: F039	10.0 mg/L regulatory level	U240
Component	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
2,4-D 94-75-7 (32.4)	Category IV - Phenoxyacetic Acid Herbicides			

14. TRANSPORT INFORMATION

DOT

Quantities:

< 33.3 gallons: Not Regulated by the US DOT as a hazardous material for Ground Shipment.
 ≥ 33.3 gallons to < 1000 gallons: UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, PG III, RQ (2,4-D).
 ≥ 1000 gallons: UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, PG III, RQ (2,4-D, dicamba).

15. REGULATORY INFORMATION

International Inventories

TSCA

All components of this product are either listed or are exempt on the TSCA inventory.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
2,4-D	94-75-7	32.4	0.1
Dicamba	1918-00-9	10.8	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
2,4-D	100 lb			X
Dicamba	1000 lb			X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
2,4-D	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
Dicamba	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
2,4-D	X	X	X	X	X
Dicamba	X	X	X		

U.S. EPA Label Information

EPA Pesticide Registration Number 1381-255

EPA Statement

This chemical is a pesticide product registered by the 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:

EPA Pesticide Label

DANGER: Corrosive. Causes irreversible eye damage. Harmful if swallowed. Do not get in eyes or on clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse."

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazard 3	Flammability 0	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 3*	Flammability 0	Physical Hazard 0	Personal Protection X

**Indicates a chronic health hazard.*

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Issuing Date 26-Jan-2017
Revision Date 26-Jan-2017
Revision Note Initial Release.

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet