




13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121 • www.midwestlabs.com

Lab #	2405400	Report of Analysis		Report Number: 15-169-4113
Account: 890	JASON CONVERSE/WW/WATER SOUTH DAKOTA SOYBEAN PROC PO BOX 500 VOLGA SD 57071-		 Robert Ferris Client Service Representative 402-829-9871	
Date Sampled: Date Received: Sample ID:	2015-05-26 2015-05-28 SOYBEAN OIL SOAPSTOCK			
Total content,				
		Analysis	Analysis	lbs per ton
		(as rec'd)	(dry weight)	(as rec'd)
NUTRIENTS				
Nitrogen				
Organic Nitrogen	%	none	----	----
Major and Secondary Nutrients				
Micronutrients				
OTHER PROPERTIES				
Total Solids	%	none	----	----

Compost Results Interpretations

Page 1

Report #:

15-169-4113

DATE RECEIVED:

2015-05-28

Organic Matter %

none As Received

Greater than 20% indicates a desirable range for compost on a dry weight basis.

0.00 Dry Weight

Compost is a significant source of Organic Matter, which is an important supplier of carbon. Organic Matter improves soil and plant efficiency by improving soil physical properties, providing a source of energy to beneficial organisms, and enhancing the reservoir of soil nutrients.

C/N Ratio

n.d.

20-30 indicates an ideal range for the initial compost process.

10-20 indicates an ideal range for a finished compost.

All organic matter is made up of substantial amounts of carbon with lesser amounts of nitrogen. The balance of these two elements is called the Carbon/Nitrogen Ratio. For the best performance, the compost pile requires the correct proportion of carbon for energy and nitrogen for protein production. If the C:N ratio is too high (excess carbon) decomposition slows down. If the C:N ratio is too low (excess Nitrogen) the compost pile could be difficult to manage.

Moisture %

none

<35% = Indicates overly dry compost

>55% = Indicates overly wet compost

Moisture Percent is the measure of water present in the compost and expressed as a percentage of total weight. Moisture present affects handling and transport. Overly dry will be light and dusty while overly wet will be heavy and clumpy. A desirable moisture content of finished compost will range between 40 to 50%.



Midwest

Laboratories, Inc.[®]

13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121
www.midwestlabs.com

Compost Results Interpretations

Page 2

Report #:

15-169-4113

DATE RECEIVED:

2015-05-28

Conductivity or Soluble Salts measures the conductance of electrical current in a liquid compost slurry. Excessive soluble salt content in a compost can prevent or delay seed germination and proper root growth. Conductivity analysis is done on a 1:5 basis.

Conductivity 1:5	
none	
Conductivity Level	Interpretation
Greater than 10	Very High nutrient content. Use for Ag Applications
5 - 10	High nutrient content. Use for Ag Applications
3 - 5	Higher than desirable for salt sensitive plants, some loss of vigor
0.6 - 3	Desirable range for most plants
0.3 - 0.6	Ideal range for greenhouse growth media
0.0 - 0.3	Very Low: Indicates very low nutrient status: plants may show deficiencies.

Compost Results Interpretations

Page 3

Report #:

15-169-4113

DATE RECEIVED:

2015-05-28

pH Value

none

0 to 14 scale with 6 to 8 as normal pH levels for compost

A pH in the 6 to 8 pH range indicates a more mature compost

pH measures the acidity or alkalinity of the compost, and is a measurement of the hydrogen ion activity of a soil or compost on a logarithmic scale. The pH scale ranges from 0 to 14 and 7 indicates a neutral pH. Growing media with a higher pH or pH greater than 7 can benefit from a compost that has a more acidic pH or pH below 7. This type of application will possibly lower the soil pH making the soil more conducive to plants that thrive in a more acidic soil condition.

Nutrient Index (Ag Index)

>10

The Nutrient Index normally runs between 1 and 10.

The Nutrient Index is obtained by dividing the total nutrients (N,P,K) by the amount of salt (Sodium and Chloride). The higher the Nutrient Index the less chance of having a toxic buildup of Sodium (salt) in the soil.

AG INDEX CHART										
<i>salt injury possible</i>	<i>use on soils with excellent drainage characteristics, good water quality and low salts</i>				<i>you may use on soils with poor drainage, poor water quality, or high salts</i>					<i>for all soils</i>
1	2	3	4	5	6	7	8	9	10	> 10

Nutrients (N+P205+K20)

#VALUE!

Average Nutrient Content Dry Weight

<2 = Low, >5 = High

0-0-0

Rating As Received

The most commonly used compost data is the amount of Nitrogen, Phosphate, and Potash (abbreviated as N,P,K) present and the information is similar to that found in common fertilizers. If a compost result has the rating 1-2-2 it means that the compost has 1% Nitrogen, 2% Phosphate and 2% Potash. Most compost tests will have a average nutrient level (N+P+K) of < 5%.

**SOUTH DAKOTA SOYBEAN PROC
JASON CONVERSE/WW/WATER
PO BOX 500
VOLGA SD 57071-**

REPORT OF ANALYSIS

For: (890) SOUTH DAKOTA SOYBEAN PROC
SOYBEAN OIL SOAPSTOCK

Analysis	Level Found		Reporting			Analyst- Date	Verified- Date
	As Received	Dry Weight	Units	Limit	Method		
Sample ID: SOYBEAN OIL SOAPSTOCK	Lab Number: 2405400		Date Sampled: 2015-05-26				
Reactivity with base	negative			0	SW-846, CH. 7.3 *	jlc8-2015/06/03	jlc8-2015/06/04
Reactivity with acid	negative			0	SW-846, CH. 7.3 *	jlc8-2015/06/03	jlc8-2015/06/04
Reactivity with water	negative			0	SW-846, CH. 7.3 *	jlc8-2015/06/03	jlc8-2015/06/04
pH	7.19		S.U.	0.10	pH Determination *	rmm8-2015/05/30	cmw2-2015/06/01
Visual appearance	see SDS			n/a	Visual	jlc8-2015/06/03	jlc8-2015/06/04
Safety Data Sheet (SDS) preparation	completed		n/a	n/a	Administrative *	jjk7-2015/06/18	jjk7-2015/06/18
Flashpoint	>100		°C	4	ASTM D 93-13e1 *	jlc8-2015/06/05	jlc8-2015/06/05
Bulk density	1.035		g/cm ³	0.001	USP <616> method I	jlc8-2015/06/04	jlc8-2015/06/04

This report was reissued on 2015-06-18 16:10:13 by adj2 for the following reason:
sds.

For questions please contact:



Heather Ramig
Account Manager
heather.ramig@midwestlabs.com (402)829-9891

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier SOYBEAN OIL SOAPSTOCK			[WHMIS Classification]		
Product Use					
Manufacturer's Name SOUTH DAKOTA SOYBEAN			Supplier's Name SOUTH DAKOTA SOYBEAN		
Street Address PO BOX 500			Street Address PO BOX 500		
City VOLGA		State SD	City VOLGA		State SD
Postal Code 57071	Manufacturer's Telephone 605-627-6461		Postal Code 57071	Emergency Telephone 1-800-262-8200 (Chem Trec)	
Date SDS Prepared 6/18/15		SDS Prepared By Midwest Laboratories, Inc.		Phone Number 402-334-7770	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (<i>specific</i>)	%	CAS Number	LD ₅₀ of Ingredient (<i>specify species and route</i>)	LC ₅₀ of Ingredient (<i>specify species</i>)
None known	NA	NA	NA	NA

SECTION 3 — HAZARDS IDENTIFICATION

Route of Entry	<input checked="" type="checkbox"/> Skin Contact	<input type="checkbox"/> Skin Absorption	<input checked="" type="checkbox"/> Eye Contact	<input type="checkbox"/> Inhalation	<input type="checkbox"/> Ingestion
Emergency Overview Material can cause dry skin with prolonged used.					
WHMIS Symbols					
<p>Flammability</p> <p>Health</p> <p>Instability</p>					
Potential Health Effects Prolonged skin exposure can result in dry skin irritation.					

SECTION 4 — FIRST AID MEASURES

Skin Contact Flush with water. Contact physician if irritation persists.
Eye Contact Flush with water. Contact physician if irritation persists.
Inhalation N/A
Ingestion Give plenty of water. Do not induce vomiting. Contact physician if irritation persists.

SECTION 5 — FIRE FIGHTING MEASURES

Flammable <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, under which conditions?	
Means of Extinction Foam, water mist, chemical suppression. Material may smolder if ignited.		
Flashpoint (° C) and Method > 100°C by ASTM D92	Upper Flammable Limit (% by volume) Not tested	Lower Flammable Limit (% by volume) Not tested
Autoignition Temperature (°C) Not tested	Explosion Data — Sensitivity to Impact Not explosive	Explosion Data — Sensitivity to Static Discharge Not explosive
Hazardous Combustion Products Carbon dioxide or carbon monoxide.		
[NFPA] Not listed.		

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures Absorb with general absorbent such as kitty litter or paper towels. Prevent entry of material into waters of the state or sanitary sewers.

SECTION 7 — HANDLING AND STORAGE

Handling Procedures and Equipment No special handling required.
Storage Requirements No special storage conditions ore requirements needed.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits <input type="checkbox"/> ACGIH TLV Not listed <input type="checkbox"/> OSHA PEL <input type="checkbox"/> Other (specify) NIOSH
Specific Engineering Controls (such as ventilation, enclosed process) No special engineering controls required.
Personal Protective Equipment <input checked="" type="checkbox"/> Gloves <input type="checkbox"/> Respirator <input checked="" type="checkbox"/> Eye <input type="checkbox"/> Footwear <input type="checkbox"/> Clothing <input type="checkbox"/> Other
If checked, please specify type Wear gloves if handling in large quantities or if person is hypersensitive to material. Always wear protective eyewear.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid/Liquid Slurry	Odor and Appearance Red-brown slurry with an earthy, plant-like odor	Odor Threshold (ppm) Not tested
Specific Gravity 1.035 g/mL	Vapor Density (air = 1) Would be like water	Vapor Pressure (mmHg) Not tested
Evaporation Rate Would be like water	Boiling Point (° C) 100°C	Freezing Point (° C) Would be like water
pH 7.19 S.U.	Coefficient of Water/Oil Distribution Not tested	[Solubility in Water] Liquid portion is miscible

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions?
Incompatibility with Other Substances	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? Strong oxidizers
Reactivity and under what conditions? Non-reactive to acid, base, and water.		
Hazardous Decomposition Products None known.		

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure Sensitive individuals may exhibit skin, eye, or respiratory irritation. Prolonged skin exposure can cause dryness.	
Effects of chronic exposure No known chronic effects.	
Irritancy of Product Mild irritant	
Skin sensitization Mild sensitizer	Respiratory sensitization Mild sensitizer
Carcinogenicity-IARC Not listed	Carcinogenicity - ACGIH Not listed
Reproductive toxicity Not listed	Teratogenicity Not listed
Embrototoxicity Not listed	Mutagenicity Not listed
Name of synergistic products/effects None known	

SECTION 12 — ECOLOGICAL INFORMATION

[Aquatic Toxicity] No known aquatic toxicity. Material may increase the organic load of water.

SECTION 13 — DISPOSAL CONSIDERATIONS

[Water Disposal] Must be disposed of in accordance with federal, state, and local environmental control regulations. Absorbed material may be placed in a licensed municipal landfill or land applied.

SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information No special shipping requirements.		PIN
TDG Not listed	[DOT] Not listed	
[IMO] Not listed	[ICAO] Not listed	

SECTION 15 — REGULATORY INFORMATION

[WHMIS Classification] Not listed	[OSHA] Not listed
[SERA] Not listed	[TSCA] Not listed
<i>This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.</i>	

SECTION 16 — OTHER INFORMATION

This information hereby is furnished without warranty of any kind. Individual handling the product should only use this information as supplemental information to others gathered. The information used by the parties handling and using the product need to be aware of proper use and disposal of the material. Some of the material included in this SDS was obtained from reference material about the product .