RSA MicroTech, LLC

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RUFFIN-TUFF ORGANIC GRANULES FEATURES AND BENEFITS

FEATURE: 1. Ruffin-Tuff Organic granular micronutrients; is approved material under WSDA

Organic Food Program and is OMRI listed

BENEFIT: 1. Can be used in both organic and traditional grower programs

FEATURE: 2. Ruffin-Tuff Organic granular micronutrients are mobile in the soil profile.

BENEFIT: 2. Metals stay available for plant utilization longer; the metals do not immediately tie-up

with soil clay particles and clay matter.

FEATURE: 3. Ruffin-Tuff Organic granular is an complexed product.

BENEFIT: 3. Common to plant life itself, making it immediately available for root uptake and

translocation.

FEATURE: 4. Ruffin-Tuff Organic granules can be applied with the seed at planting time.

BENEFIT: 4. This places the micronutrient granules in the root zone, available for immediate plant

utilization.

FEATURE: 5. Ruffin-Tuff Organic granules are located at least every ½ inch in a banded

application.

BENEFIT: 5. With a 5 pound application, this allows for good root uptake.

FEATURE: 6. Lignosulfonate has been added to the Ruffin-Tuff granules.

BENEFIT: 6. This creates an organic complexing agent that enhances uptake of micronutrients.

FEATURE: 7. Ruffin-Tuff Organic granules are an acidic product.

BENEFIT: 7. In alkaline soils, this prevents immediate soil tie-up and enhances uptake of metal.

FEATURE: 8. Ruffin-Tuff Organic granules spread more acres.

BENEFIT: 8. With Ruffin-Tuff Organic, less material is needed per blend, which equates to more

acres being spread.

FEATURE: 9. Ruffin-Tuff Organic granules are water soluble.

BENEFIT: 9. This dissolves easily with the soil moisture, allowing the product to move with the soil

wetting pattern for better root uptake.

FEATURE: 10. Ruffin-Tuff Organic granules have a bulk density of 52-56 lbs. per cubic foot.

BENEFIT: 10. Bulk density is very close to urea, DAP and MAP fertilizers, to allow for a more

uniform blend and reducing segregation.

FEATURE: 10. Ruffin-Tuff Organic granules mean fewer products to store and better inventory

control.

BENEFIT: 10. This Frees up bin space for other uses

FEATURE: 11. Ruffin-Tuff Organic granules are available in 50 lb. bags, one-ton super sacks, or

bulk.

BENEFIT: 11. Various size, able to fill the needs of any blending operation from large to small.



BULK DENSITIES

OF VARIOUS MICRONUTRIENT SOURCES

<u>PRODUCT</u>	lbs/ft ³	PRODUCT	lbs/ft3
RSA Ruffin Tuff Zinc 10%	56	35.5% Zinc Sulfate	100
Ruffin Tuff Zinc 10% Organic	56	RSA Ruffin Tuff Man. 8%	55
Ruffin Tuff Man. 8% Organic	55	31% Zinc Sulfate	100
RSA Ruffin Tuff Crop Mix I	56	15% Boron	65
RSA Ruff Tuff Copper 5%	52	32% Manganese Sulfate	85
RSA Ruffin Tuff Iron 10%	56	31% Ferrous Sulfate	86
RSA Ruffin Tuff Crop Mix II	56	Ruffin Tuff Iron 10% Organic	56
25% Copper Sulfate	92		



BULK DENSITIES

OF VARIOUS FERTILIZERS

PRODUCT	lbs/ft ³
21-0-0 Ammonium Sulfate	60-64
34-0-0 Ammonium Nitrate	58-62
46-0-0 Urea	48-52
11-52-0 Monoammonium Phosphate	58-64
18-46-0 Diammonium Phosphate	56-60
0-0-60 Muriate of Potash	66-70
0-46-0 Triple Superphosphate	66-72
0-0-50 Sulfate of Potash	85-93

This bulletin provides some technical information and is not intended to give complete information for all applications. Always read and follow label directions.