

MATERIAL SAFETY DATA SHEET

CO GROW 13.13.21+2MgO+TE

Unikeyterra Kimya Tarım Dış Ticaret Sanayi ve Ticaret LTD. ŞTİ. Halil Rifat Paşa Cd. Fatih Mh. 412 Sk. N:11/1 Konak / İzmir / TURKEY

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER:

Unikeyterra Kimya Tarım

Halil Rifat Paşa Cd. Fatih Mh. 412 Sk. N:11/1

Konak / İzmir / TURKEY

PRODUCT NAME : CO GROW 13.13.21+2MgO+TE

CHEMICAL NAME : Granular NPK Fertilizer

CHEMICAL FAMILY : Granular Fertilizer

EPA REG. NO. : not applicable

MSDS Revisions: New **Date of Issue:** 12/7/2017 **Supersedes:** New

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN

May cause mild eye and skin irritation. Avoid contact with skin, eyes, open cuts, or sores. In cases of contact, flush with water. Get medical attention for eyes. This blended dry fertilizer is mixture of Ammonium Sulfate, Biosolids and Monoammonium Phosphate. Nausea and vomiting could be expected upon large dose ingestion. The acute digestive effects are described as nausea, chills and diarrhea. Eye or skin contact with these products could cause irritation (particularly in sensitive persons) and respiratory irritation could be expected from the unprotected inhalation of fertilizer dusts. Product user should avoid prolonged or repeated skin contact by wearing impervious gloves, long sleeve shirt, long pants, socks and rubber boots. Goggles for eye protection are recommended. Wash thoroughly after handling and using this product.

This product is a multi-colored granule with dusty odor. Primary routes of entry are inhalation eye contact and skin contact.

3. COMPOSITION, INFORMATION ON INGREDIENTS (Note: see product tag or label for specific ingredients)

Chemical Ingredients:	Percentage by Weight:	CAS No.	TLV (Units)
Nitrogen (N)	13.0%	Mixture	Not listed
Phosphorus Pentaoxide (P2O5)	13.0%	Mixture	Not listed
Potassium Oxide (K2O)	21.0%	Mixture	Not listed
Magnesium Oxide (MgO)	2%	Mixture	Not listed
Boron (B)	0.1%	Mixture	Not listed
Copper (Cu)	0.1%	Mixture	Not listed
Iron (Fe)	0.2%	Mixture	Not listed
Manganese (Mn)	0.1%	Mixture	Not listed
Zinc (Zn)	0.2%	Mixture	Not listed

4. FIRST AID MEASURES

If in eyes : Flush with clean running water for at least 15 minutes. If irritation persists, get medical attention.
If on skin : Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists or if rash develops get medical attention.
If swallowed : If conscious, drink 1 or 2 glasses of water. Get medical attention. Never induce vomiting or give anything by mouth to an unconscious person.
If inhaled : Remove to fresh air. If irritation persists, get medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT (F/Test Method) : Not applicable
FLAMMABLE LIMITS (LFL & UFL) : Not applicable
EXTINGUISHING MEDIA : Considered non-combustible, use medium appropriate to surrounding fire. Dry chemical, CO2, foam, water spray or fog.
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 sulfide and cyanuric acid.
SPECIAL FIRE FIGHTING PROCEDURES : Wear self contained breathing apparatus and full protective gear.
UNUSUAL FIRE AND EXPLOSION HAZARDS : Sulfur - containing components may release oxides of sulfur.

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6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid breathing dusts and vapors. Sweep up dry spills immediately and transfer to suitable containers for possible land application according to label use for disposal. Check local state and federal regulations for proper disposal.

CAUTION : Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

HANDLING : Avoid breathing dust. Avoid prolonged or repeated skin contact. Avoid eye contact. Wash hands thoroughly after handling this product.

STORAGE : Store in original containers only. Keep containers tightly closed when not in use. Store in a cool, dry, well - ventilated area, preferably in a locked storage area away from children, feed and food products and seeds. Store at ambient temperatures. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS : Not normally required.

RESPIRATORY PROTECTION : Not normally required. If vapors or dusts exceed acceptable levels, wear a NIOSH approved pesticide respirator.

EYE PROTECTION : Chemical goggles or shielded safety glasses.

SKIN PROTECTION : Wear protective clothing (long sleeved shirts and pants, hat, rubber boots with socks) . Wear rubber or chemical-resistant gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	: Granular NPK Fertilizer	pH	: 2-4
Percent Equivalent	: 100%	Specific Gravity (@ 25°C)	: 1.8
Physical State	: Granular	Vapor Pressure (mm/hg)	: n/a
Colour and Appearance	: Blue Granular	Vapor Density (air=1)	: n/a
Odor	: Odorless		
Odor Threshold	: n/a		

10. STABILITY AND REACTIVITY

STABILITY : Stable **CONDITIONS TO AVOID** : Excessive heat and moisture

INCOMPATIBILITY : Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS : May include but is not limited to oxides of carbon, hydrogen chlorine, hydrogen fluoride, oxides of nitrogen, ammonia, oxides of phosphorus, oxides of sulfur, hydrogen sulfide and cyanuric acid.

HAZARDOUS POLYMERIZATION : Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD50 (rat)	: >5000 mg/kg	Acute Dermal LD50 (rabbit)	: >5000 mg/kg
Eye Irritation (rabbit)	: May cause irritation	Skin Irritation (rabbit)	: May cause irritation in sensitive individuals
Inhalation LC50 (rat)	: May cause respiratory tract irritation	Skin Sensitization (guinea pig)	: Not established
Carcinogenic Potential	: None listed in OSHA, NTP, IARC or ACGIH		

12. ECOLOGICAL INFORMATION

Drift or runoff may adversely affect non-target plants. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favor drift from target area.

13. DISPOSAL CONSIDERATIONS

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

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14. TRANSPORT INFORMATION

DOT Shipping Description: **Not restricted under IATA regulations**

Consult appropriate ICAO / IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:	NFPA		HMIS	
	1 Health		0 Least	1 Health
	1 Flammability		1 Slight	1 Flammability
	0 Instability		2 Moderate	0 Reactivity
			3 High	G PPE
			4 Severe	
SARA Hazard Notification / Reporting				
SARA Title 111 Hazard Category :	Immediate	Y	Fire	Y
	Delayed	N	Reactive	N
			Sudden Release of Pressure	N
Reportable Quantity (RQ) under U.S. CERCLA	: Not Listed			
SARA, Title 111, Section 313	: Not Listed			
RCRA Waste Code	: Not Listed			
CA Proposition	: Not Listed			

16. OTHER INFORMATION

MSDS STATUS: New

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