# SAFETY DATA SHEET



## 1. Identification

**Product identifier** WIL-GRO Mini-N2K 21-2-21

Other means of identification

Recommended use Ag Product - Plant Nutrition

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Wilbur-Ellis Company LLC Company name **Address** 16300 Christensen Rd. Ste 135

Tukwila, WA 98188

**United States** 

**Telephone** Branded Products Information (800) 500-1698

SDS@wilburellis.com E-mail

**Emergency phone number** Chemtrec - Domestic (800) 424-9300 Chemtrec - International +1 703-741-5970

2. Hazard(s) identification

Physical hazards Not classified. Not classified. **Health hazards Environmental hazards** Not classified. Not classified. **OSHA** defined hazards

Label elements

None. Hazard symbol None. Signal word

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

Prevention Observe good industrial hygiene practices.

Wash hands after handling. Response

Store away from incompatible materials. Storage

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Urea		57-13-6	40 - < 50
Ammonium Sulfate		7783-20-2	3 - < 5
Monoammonium Phosphate		7722-76-1	3 - < 5
Manganese Compounds		7439-96-5	1 - < 3
Respirable Crystalline Silica		14808-60-7	<0.1
Other components below reportable le	evels		40 - < 50

Percentage ranges of composition to protect confidentiality or due to batch variation.

## 4. First-aid measures

Inhalation If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a

physician if symptoms develop or persist.

Rinse skin with water. Get medical attention if irritation develops and persists. Skin contact

Eye contact Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Most important Irritation of eyes. Upper respiratory tract irritation.

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to General information

protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

the chemical

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted. General fire hazards

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Do not breathe dust. Avoid contact with eyes. Avoid prolonged exposure. Practice good housekeeping.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

## Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form	
Manganese Compounds (CAS 7439-96-5) US. OSHA Table Z-3 (29 CFR 1910.	Ceiling	5 mg/m3	Fume.	
Components	Туре	Value	Form	
Respirable Crystalline Silica (CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.	

Material name: WIL-GRO Mini-N2K 21-2-21

SDS US

1871 Version #: 04 Revision date: 09-26-2017 Issue date: 09-10-2015

## US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Туре	Value	Form
		0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
Manganese Compounds (CAS 7439-96-5)	TWA	0.1 mg/m3	Inhalable fraction.
		0.02 mg/m3	Respirable fraction.
Respirable Crystalline Silica (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Chemical	Hazards		
Components	Туре	Value	Form
Manganese Compounds (CAS 7439-96-5)	STEL	3 mg/m3	Fume.
	TWA	1 mg/m3	Fume.
Respirable Crystalline Silica (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
US. Workplace Environmental Exposu	re Level (WEEL) Guides		
Components	Type	Value	Form
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica

should be monitored and controlled.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Use tight fitting goggles if dust is generated.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

**Respiratory protection** Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels

exceeding the exposure limits.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** 

Physical state
Form
Color
Not available.

Odor threshold
Ph
Not available.

Not available.
Not available.

Not available.

Not available.

Not available.

Not available.

Initial boiling point and boiling

range

Not available. Flash point

**Evaporation rate** Not available. Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Not available.

Flammability limit - upper

Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

Not available. Vapor pressure Vapor density Not available. Not available. Relative density

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity** 

# 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces Conditions to avoid

with compressed air).

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

# 11. Toxicological information

## Information on likely routes of exposure

Inhalation Inhalation of dusts may cause respiratory irritation. Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Dust in the eyes will cause irritation. Expected to be a low ingestion hazard. Ingestion

Symptoms related to the physical, chemical and

toxicological characteristics Irritation of eyes. Upper respiratory tract irritation.

# Information on toxicological effects

### **Acute toxicity**

Components **Test Results** Species

Ammonium Sulfate (CAS 7783-20-2)

Acute **Dermal** 

LD50 Mouse > 2000 mg/kg

Rat > 2000 mg/kg

Material name: WIL-GRO Mini-N2K 21-2-21

SDS US 1871 Version #: 04 Revision date: 09-26-2017 Issue date: 09-10-2015

Components	Species	Test Results
Oral		
LD50	Rat	4250 mg/kg
Manganese Compounds (	CAS 7439-96-5)	
<u>Acute</u>		
Inhalation		
Dust		
LC50	Rat	> 5.14 mg/l, 4 Hours
Oral		
LD50	Rat	> 2000 mg/kg
Monoammonium Phospha	ate (CAS 7722-76-1)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 mg/kg, 24 Hours
	Rat	> 5000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 5 mg/l, 4 Hours
Oral		
LD50	Rat	3252 mg/kg
Urea (CAS 57-13-6)		
<u>Acute</u>		
Oral		
LD50	Mouse	13000 mg/kg
	Rat	15000 mg/kg

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Dust in the eyes will cause irritation.

### Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica Carcinogenicity inhaled from occupational sources can cause lung cancer in humans. However in making the

> overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its

polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline

silica should be monitored and controlled.

# IARC Monographs. Overall Evaluation of Carcinogenicity

Respirable Crystalline Silica (CAS 14808-60-7) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

# **US. National Toxicology Program (NTP) Report on Carcinogens**

Respirable Crystalline Silica (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated

**Aspiration hazard** 

Not classified.

exposure

Not available.

**Chronic effects** Prolonged inhalation may be harmful.

**Further information** This product has no known adverse effect on human health.

## 12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential Mobility in soil

No data available. No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. **Disposal instructions** 

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings, if applicable, even

after container is emptied.

## 14. Transport information

# DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

## **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not applicable.

the IBC Code

# 15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA.

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

# CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

## SARA 304 Emergency release notification

Not regulated.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

# SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

# SARA 313 (TRI reporting)

 Chemical name	CAS number	% by wt.
AMMONIA (INCLUDES ANHYDROUS AMMONIA A	AMD83-20-2	3 - < 5
AQUEOUS AMMONIA FROM WATER DISSOCIAE	BLE	
AMMONIUM SALTS AND OTHER SOURCES; 10%	6 OF	
TOTAL AQUEOUS AMMONIA IS REPORTABLE		
UNDER THIS LISTING)		
AMMONIA (INCLUDES ANHYDROUS AMMONIA A	AMD22-76-1	3 - < 5
AQUEOUS AMMONIA FROM WATER DISSOCIAE	BLE	
AMMONIUM SALTS AND OTHER SOURCES; 10%	% OF	
TOTAL AQUEOUS AMMONIA IS REPORTABLE		
UNDER THIS LISTING)		
MANGANESE	7439-96-5	1 - < 3

## Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Manganese Compounds (CAS 7439-96-5)

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

## **US state regulations**

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Manganese Compounds (CAS 7439-96-5) Respirable Crystalline Silica (CAS 14808-60-7)

## **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

## US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Respirable Crystalline Silica (CAS 14808-60-7) Listed: October 1, 1988

#### International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)\*United States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

**Issue date** 09-10-2015 **Revision date** 09-26-2017

Version # 04

NFPA ratings Health: 1

Flammability: 0 Instability: 0

**NFPA** ratings



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