


SAFETY DATA SHEET



SECTION 1	PRODUCT AND COMPANY IDENTIFICATION
Product Name:	General Berry Blend 20-6-10
Other Means of Identification	20-6-10 5Ca-0.2 Mg-7S
Chemical Name:	NPK Granular Blend with Calcium Magnesium and Sulphur
Primary Use:	Fertilizer and soil amendments
Company Information:	ViviGro Sustainable Solutions Ltd. 610 - 3530 Millar Ave. Saskatoon, Sask. S7P 0B6 Office 306-986-5158 Toll Free 1-833-390-1019
Emergency Telephone:	Weekdays Monday- Friday 8am to 4:30pm 306-986-5158

SECTION 2	HAZARD IDENTIFICATION
GHS Classification ¹ :	Skin Irritant Category 2 and Eye Irritation Category 2A, Flammability 1.
	Signal Word: Warning KEEP OUT OF REACH OF CHILDREN – CAUTION - Hazard Statement(s): Signal Word: Warning H305: May be harmful if swallowed and enters airways H317: May cause an allergic skin reaction Warning H333: May be harmful if inhaled H335: May cause respiratory irritation
Label Elements:	GHS-US/CA Labeling Hazard Pictograms (GHS-US/CA) 
Prevention (Precautionary Statements):	P220: Keep away from oxidizing agents P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P264: Wash hands thoroughly after handling and before eating. P280: Use a particle mask and nitrile gloves under normal conditions P284: In case of inadequate ventilation, wear respiratory protection.
Other Hazards which do not require classification:	None

SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS			
Chemical Ingredients	Percentage by Weight	CAS No. (w.r.t. Source Material)	TLV (units) (w.r.t Source Material)
Total Nitrogen (N)	20%	Mixture	Not Listed
Available Phosphoric Acid (P2O5)	6%	Mixture	Not Listed
Soluble Potash (K2O)	10%	Mixture	Not Listed

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Calcium (Ca)	5%	Mixture	Not Listed
Sulphur (S)	7%	Mixture	Not Listed
Moisture	8%	Mixture	Not Listed
Organic Mixture	11%	Mixture	Not Listed

SECTION 4	FIRST AID MEASURES	
Route of Exposure	Skin or eye contact, inhalation as dust.	
First Aid Procedures:	Eyes:	Move victim away from site to fresh air. Flush eyes with plenty of clean water for at least 5-10 minutes. Lift eyelids occasionally to facilitate irrigation. If symptoms persist, seek medical attention.
	Skin:	Wash contaminated area thoroughly with mild soap and water. If irritation develops and persists after washing, seek medical attention. Remove and launder contaminated clothing. Only in case of molten product, don't remove clothing.
	Inhaled:	If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms still persist, seek medical attention.
	Ingestion:	If large amounts are swallowed, give 250-300 ml of water & seek emergency medical attention. If possible, do not leave victim unattended and observe closely for adequacy of breathing. Never give anything to mouth to an unconscious person.
Note to Physician:	If you know that individual has known allergies to sulfide drugs, may also have allergic reaction to sulphur. Kindly treat symptomatically.	

SECTION 5	FIRE FIGHTING MEASURES
Fire Hazard	Most of ingredients are non-flammable however prevent it from excessive heat. One of its major ingredient decomposes above 132.6°C (270.7° F)
Extinguishing Media	Use Water Spray, Carbon dioxide, water fog or alcohol resistant foam as per consideration of surroundings.
Unsuitable Extinguishing Media:	None Known.
Protection of Firefighters:	Positive pressure, self-contained breathing apparatus is required for all firefighting activities involving hazardous materials. Full structural firefighting (bunker) gear is the minimum acceptable attire. Contain and collect the water used to fight the fire for later treatment and disposal. Fire-fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Remember if product is wet, guards might slip or falls, Be CAUTIOUS. If exposed to smoke, fumes or combustion products, firefighters should be relieved IMMEDIATELY and checked for symptoms of exposure of toxic gases. DO NOT mistake symptoms for heat exhaustion or smoke inhalation. SEEK MEDICAL ATTENTION.
Hazardous Combustible Products	No unusual fire or explosion hazards are expected. Under conditions of fire (as mentioned in fire hazard) the combustible products of major ingredient include: Ammonia, Nitrogen Oxides, Biuret. Short term exposure of smokes and gases might cause irreversible lung injury. Combustion can yield oxides of sulfur when heated above 1000°F (537°C).

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Explosion data- sensitive to static discharge	None Known
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SECTION 6	ACCIDENTAL RELEASE MEASURES
Response Techniques:	<p>Personal precautions Use personal protective equipment. Avoid dust formation. Stay upwind and away from spill (dust hazard). Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.</p> <p>Methods and materials for containment and cleaning up In case of spill handle using nitrile gloves and wear a particle mask. Employ best-practice sanitation methods for clean-up. Utilize a vacuum or sweep the product with a broom and dispose in a garbage receptacle. There are no special emergency procedures for clean-up.</p> <p>Environmental precautions Prevent further spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.</p> <p>Notify appropriate federal, state, and local agencies as may be required.</p>

SECTION 7	HANDLING AND STORAGE
Handling:	Avoid any physical damage to containers and follow standard procedures for solid material with dust. While handling, don't eat, drink or smoke. Wear gloves and a particle mask when handling and transporting. Avoid excessive humidity, contact with moisture, and extreme temperatures to retain product functionality. There are no known incompatibilities with this material. Wash thoroughly after handling. Wash contaminated clothing or shoes. Use good personal hygiene practices.
Storage:	Keep container tightly closed in a dry and well-ventilated place. Exercise caution to prevent damage or leakage from containers. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Avoid contamination with other "look alike" materials that may produce a fire or explosion.

SECTION 8	EXPOSURE CONTROLS / PERSONAL PROTECTION	
Engineering Controls:	Ensure adequate ventilation in work area through a general or localized exhaust system. Be careful not to create dust, especially in confined areas to keep below nuisance dust limit of 15 mg/m ³ .	
Personal Protective	Eye/Face:	Face shield or shield safety glasses or chemical goggles to protect from dust irritation. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Emergency eye wash fountains and safety showers should be

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Equipment (PPE):		available in the immediate vicinity of any potential exposure.
	Skin:	Coveralls resistant to chemicals. Wash contaminated clothing separately before reuse.
	Respiratory:	Normally not required unless inhalation of large amount. If vapors of mixture are too strong pre-approved NIOSH air purifying or supplied air respirator where airborne concentrations of dust are expected to exceed exposure limits, should be used for organic vapor with dust, mist and fume filters.
	Hand	Handle with impermeable protective gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
	Other:	A source of clean water should be available in the work area for flushing eyes and skin.
Additional Advice	Before eating, drinking, or smoking wash face and hands thoroughly with soap and water. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use.	
Exposure Guidelines:	Occupational Exposure Limit (OEL) for Particulates (PNOC**)- OSHA PEL 8 hr TWA	15 mg/m ³ TWA (total dust).

** PNOC : Particulates Not Otherwise Classified

SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES		
Note: Unless otherwise stated, values in this section are determined at 20°C (68°F) and 760 mm Hg (1 atm).			
Appearance:	Greyish Brown	Vapor Pressure (mm Hg):	Not Established
Odor:	No data available	Vapor Density (air=1):	Not applicable
Odor Threshold:	No data available	Specific Gravity or Relative Density:	No data available
Physical state:	Granule, powder, dust	Bulk Density:	No data available
pH:	No data available	Solubility in Water:	Not Available
Melting Point/ Freezing Point:	Not Available	Partition coefficient:	No data available
Boiling Point:	No data available	Auto-Ignition Temperature:	No data available
Flash Point:	No Data Available	Decomposition Temperature:	No data available
Evaporation Rate:	No data available	Viscosity:	No data available
Flammability:	Majority of ingredients are non inflammable except few.	Volatility:	Not applicable
Upper/lower Flammability or explosive limits	No data available		

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SECTION 10	STABILITY AND REACTIVITY
Chemical Stability:	Normally Stable under recommended storage conditions
Conditions to Avoid:	Mildly corrosive to metals in presence of moisture, thus prevent moisture. May slowly hydrolyze to ammonium carbamate and eventually decompose to ammonia and carbon dioxide.
Incompatible Materials:	Nitric Acid and other strong acids/ bases and oxidizers
Hazardous Decomposition Products:	May include but not limited to oxides of carbon, ammonia, oxides of nitrogen, oxides of phosphorous, and rarely sulphur oxides etc. Combustion can yield oxides of sulphur when heated above 1000 deg F (527 deg C)
Corrosiveness:	None Known but might cause skin irritation.
Hazardous Polymerization:	No polymerization is expected.

SECTION 11	TOXICOLOGICAL INFORMATION		
Substance:	NPK Granular Blend with Calcium, Magnesium and Sulphur		
Routes of Entry:	Skin, Eyes and Inhalation.		
Acute Oral Toxicity:	Inhalation: Mild Irritation in Respiratory Tract Skin Absorbed: Not expected to be absorbed Ingestion: May cause symptoms of vomiting or diarrhea if ingested in large quantities.		
Acute Inhalation Toxicity:	No Data Available		
Acute Dermal Toxicity:	No Data Available		
Mutagenesis:	No data available	Target Organ	No data available
Developmental Toxicity:	No data available	Carcinogenicity	Ingredients of this products are not listed as carcinogens by OSHA or NTP and are not rated by IARC or ACGIH.
Reproductive Toxicity	No data available	Teratogenicity	No data available
Potential Health Effects			
Inhalation	May be harmful, if inhaled, Causes Respiratory Tract Irritation		
Ingestion	May be harmful, if swallowed		
Skin	May be irritant, if absorbed through skin. Causes skin irritation		
Eyes	Causes eye irritation or even damage with high concentrations		
Signs & Symptoms After Exposure	Symptoms of exposure may include coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.		
Chronic Exposure	No data available		
Synergistic Effects	No data available		

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SECTION 12	ECOLOGICAL INFORMATION
No Information Located. As General Practice, safety of aquatic life should be considered. Long term usage might be toxic thus keep away from sewers and water ways and disposal should be done in appropriate sealed containers.	
SECTION 13	DISPOSAL CONSIDERATIONS
Disposal	<p>Do not reuse containers for any purpose. Completely empty bag into application equipment. Container is to be disposed of at a container collection site. Contact your local dealer/distributor for the location of the nearest collection site. Before taking container to the collection site: make the empty container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Do not contaminate water, food, or feed by storage or disposal.</p> <p>Contaminated packaging Dispose of as unused product</p>
SECTION 14	TRANSPORT INFO
Regulatory Status: Not Regulated (as all major components are under non dangerous goods category).	
Special Note: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	
Consult appropriate ICAO/ IATA Regulations for shipping requirements in Air Shipping mode	
DOT/ TDG Shipping Instructions	Not Regulated
Proper Shipping Name:	None Assigned
Transport Hazard Class:	Non-Hazardous
SECTION 15	REGULATORY INFORMATION
WHMIS:	<p>WHMIS 2015 This SDS has been prepared according to the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.</p>
SECTION 16	OTHER INFORMATION
Disclaimer:	Although every effort is made to ensure the accuracy, currency, and completeness of the information, ViviGro does not guarantee, warrant, represent or undertake that the information provided is correct, accurate or current. ViviGro is not liable for any loss, claim, or demand arising directly or indirectly from any use or reliance upon the information.
Preparation:	2021-12-29
Revision Date:	

¹ GHS Classification is not available for such granular mixtures, thus source material and their categories are compared to evolve highest severity index or some uniqueness in response to be added for safety purposes.