SECTION 1. Chemical Product and Company Identification		
Trade Name:	Sulphur fertilizer or Sulphur Bentonite	
Synonym:	NutraGold, NutraSul, SULPHUR 9.(Sulphur bentonite pastilles)	
CAS# Registry Number:	n/a	
RTECS Number:	n/a	
Chemical Formula:	n/a	
Product Use:	Agricultural industry user as:	
	nutrients ,pesticides and soil amendments	
	(sulphur lowering alkaline soils pH)	
Manufacturer:	Kimianahadeh Khavar	
Date of first issue:	April 12,2022	
Modification date:	-	
Responsible:	Ms. Dehghan	
Contact Information:	<u>www.kimianahadeh.com</u>	
	<u>info@kimianahadeh.com</u>	
Address Information:	No. 13, 14 th floor, Marmar complex , 28 th	
	Imam Khomini st, Mashhad, Iran.	
Emergency Contact:	+98(51)-38 11 4331	

SECTION 2. Composition/Information on Ingredients			
		%	OSHA permissible
Hazardous Material	CAS Number	by weight	Limit Exposure
No hazardous material			
Additional Ingredients:			
%(Sulphur (90±3	7704-34-9	90±3	
%(Bentonite (10±3	1302-78-9	10±3	

SECTION 3. Hazards Identification		
Emergency Overview:	No significant immediate hazards for emergency	
	responses are known.	
CAUTION:	Contact with dust may cause discomfort and/or	
	mild irritation to skin, eyes, nose and lungs. Avoid	
	breathing dust.	
	Do not ingest. May irritate mouth, stomach, etc.	
Physical state (250C/770F):	Multi colored granules, no odor OR May have a	
	slight sulphur odor	
Major Health Hazards	Irritating or respiratory tract, Skin and eye	
	irritant.	

Carcinogen Status		
NOHSC	Not classified	
NTP	Not classified	
IARC	Not classified	

SECTION 4. First Aid Measures		
Inhalation:	Bring subject to a well ventilated area. Contact a physician if symptoms persist.	
Skin:	Wash with plenty of water.	
Eyes:	Flush eyes with large quantities of running water for a minimum of 15 minutes. Remove contact lenses. Rinse the entire surface of the eye and lid with water. Call physician if eye irritation occurs.	
Ingestion:	Harmful if swallowed. Seek medical car. Do not induce vomiting.	

SECTION 6. accidental Release Measures	
Small release:	Stop leak or spill. Collect for re-use. Contain
	runoff by diking. Prevent spills from entering
	water courses,
	Basement or closed area. Wear appropriate
	personal protective equipment for cleanup.
Release to water:	Reclaim as mush product as possible to avoid
	further contamination,
Occupational Release:	Eliminate all potential sources of ignition. Cover
	with damp inert material such as sand and sweep
	or vacuum up without generating dust. Shovel
	into labelled, sealed containers, bags or drums
	for disposal or reuse using a spark-free shovel.
	Equip clean up personal with appropriate
	protective equipment and work upwind or
	increase ventilation.

SECTION 7. Handling and Storage	
Handling:	Wear suitable personal protective equipment.
	Avoid inhalation and prolonged or repeated
	contact with eyes and skin.
Storage:	Store in a cool, dry, well ventilated area.
	Protected from physical damage and sealed when
	not in use.
	Ensure no naked flames are present.
	Store in a dry, ventilated area, away from food
	and seed.
	Keep out of reach of children.
Performance mechanism (How it works):	As the bentonite absorbs moisture from the soil,
	the pastilles swell and break apart, release the
	sulphur particles in the range 20-500 micron, so
	quantity and quality of agricultural crops will
	improve.

SECTION 8. Exposure Controls and Personal Protection			
Exposure limits: ACGIH	Ingredient	TWA	STEL
	Dust	10 mg/m3	None Assigned
Personal protection:	Skin contact with the product should be		ould be
	prevented v	with the use of appro	priate protective
	clothing an	d gloves (nitrile glove	es are
	recommend	ded). Wear safety gla	isses with side
	shields to avoid eye contact.		
Respiratory:	If dust is ge	nerated, use a NIOSI	H-approved
	respiratory	mask.	
Ventilation:	Provide god	od ventilation if dusty	conditions /
	prevails.		

SECTION 9. Physical and Chemical Properties		
Physical state:	Solid	
Appearance:	Yellow-Green Solid, pastilles shape	
Odor:	May have a slight sulphur odor	
Boiling Point(°C):	414	
Melting point(°C):	119	
Bulk Density:	1100-1500 kg/m3	
specific Gravity:	2.07 (Wate=1)	
Main pastilles Size: (min 70%)	Partially soluble in water	
pH:	Neutral when dry	
Package size	25kg Bags & 1000kg MBB	

SECTION 10. Stability and Reactivity	
Under Normal Conditions:	Stable
Under Fire Conditions:	Stable
Hazardous Polymerization:	Hazardous Polymerization: Will not occur
Conditions to Avoid:	Extreme temperatures
Materials to Avoid:	Strong oxidizing agents, chlorates, hypochlorites
Hazardous Decomposition or Combustion	Cyanuric acid, sulfur oxides, nitrogen oxides,
Products:	carbon oxides
Conditions to Avoid:	Oxidising agents such as chlorates and nitrates,
	finely divided metals alkalis and mineral acids.
Hazardous Decomposition	Burning may produce toxic fumes, including
	oxides of sulphur.
Hazardous Polymerization:	Will not occur.

SECTION 11. Toxicological information	
Recommended Exposure Limit:	None recommended for this product
Toxicological Data:	None know
Carcinogenicity Date:	Ingredients of this products are not listed ad

	carcinogens by OSHA or NTP and are not rated by
	IARC or ACGIH
Reproductive Effects:	No data available
Mutagenicity Data:	No data available
Teratogenicity Data:	No data available
Synergistic Materials:	None know

Effects of exposure when	
Inhaled:	Dust is irritating to nose, throat and respiratory
	tract. May cause coughing or sneezing
In contact with the skin:	Prolonged and repeated contact may cause mild
	irritation
In contact with the eyes:	Dust may cause mild irritation and due to
	abrasiveness may cause eye damage if untreared.
Ingested:	Ingestion may cause gastrointestinal upset,
	abdominal pain and diarrhea.
Other health effects:	High concentration of urea in the blood increases
	the risk of glaucoma

SECTION 12. Ecological information	
May be harmful to aquatic life. In sufficient quantity may deplete oxygen required by aquatic life.	
May cause eutrophication of ponds and lakes.	
Deactivating chemical:	None required

SECTION 13. Disposal considerations

Suitable for use as agriculture/horticultural fertilizer. Consult local authorities. Do not dispose of waste with normal garbage or into water systems.

SECTION 14. Transport Information	
DOT/TDG Classification	Not controlled under DOT(USA) or TDG (Canada).

SECTION 15. Regulatory Information		
NFPA Classification	Transport DOT/TDG	WHMIS Classification
Health hazard :1(Slightly	Not regulated	Not regulated
hazardous)		
Fire hazard: 0(Inflammable)		
Instability hazard: 0 (Stable)		
Specific hazard: None		
Protective clothing		

SECTION 16. Other Information

This product is classified as:	Not Hazardous according to criteria of the National Occupational Health and Safety Commission and not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code	
References:	 United Sates Department of labor, Occupational Safety and Health Administration, http://www.osha.gov/ Report on Carcinogens, Eleventh Edition; U.S. Department of Health and Human Services, Public Health Service, National Toxicology Program. List IARC Carcinogenic Agents 2010, International Agency for Research on Cancer. 	
Definitions of abbreviations:	<u> </u>	
ACGIH	American Conference of Governmental Industrial Hygienists	
CAS	Chemical Abstract Service	
DOT	Department of Transportation	
IARC	International Agency for Research on Cancer	
LEL	Lower Explosive Limit for Flammable Gases And Vapor	
NFPA	National Fire Protection Association	
NIOSH	National Institute for Occupational Safety and Health	
NTP	National Toxicology Program	
OSHA	Occupational Safety and Health Administration	
TDG	Transport of Dangerous Goods	
UEL	Upper Explosive Limit for Flammable Gases And Vapor	
WHMIS	Workplace Hazardous Materials Information System	

NOTICE:	The Information above is believed to be accurate
	and represents the best information currently
	available to us. However, we make no warranty
	of merchantability or any other warranty, express
	or implied, with respect to such information, and
	we assume no liability resulting from its use.
	Users should make their own investigations to
	determine the suitability of the information for
	their particular purposes.
	In no event shall IRASULPH be liable for any
	claims, losses, or damages of any third party or
	for lost profits or any special, indirect, incidental,
	consequential or exemplary damages, howsoever

arising even if IRASULPH has been advised of the
possibility of such damages.

Sulphur Bentonite (Agricultural sulphur as fertilizer)		
Physical property		
Appearance	Yellow-Green Solid, pastilles shape	
Odor	May have a slight sulphur odor	
Bulk density	1100-1500 kg/m^3	
Main Pastilles Size (min 70%)	Diameter 2-5mm	
Specification		
Sulphur content	% (90±3)	
Bentonite content	%(10±3)	
Moisture	0.5% max	
рН	Neutral when dry	
Package size	25kg _{Bags} & 1000kg _{MBB}	
Application	Agricultural industry use as:	
	nutrients pesticides and soil amendments	
	(sulphur lowering alkaline soils pH)	
Advantages (benefits)	 Increased crop yields and quality 	
	 Promotes efficient absorption and 	
	metabolism of NPK	
Performance mechanism (How it works):	As the bentonite absorbs moisture from the soil.	
	the pastilles swell and break apart, release the	
	sulphur particles in the range 20-500 micron. So	
	quantity and quality of agricultural crops will	
	improve.	
Normal Handling	Avoid breathing dust and keep clothing as free	
	from dust as possible.	
Storage	Store in a cool, dry, well ventilated area.	
	Protected from physical damage and sealed when	
	not in use. Ensure no naked flames are present.	