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SAFETY DATA SHEET

Revision Number: 1

1. IDENTIFICATION OF	THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING		
GHS product identifie	er de la constant de		
Product Name	NutraSul 90		
Other means of identi	ification		
Synonyms	Sulfur-Bentonite, N-90, Degradable Sulfur		
Recommended use of	f the chemical and restrictions on use		
Recommended Use Uses advised against	Plant nutrient fertilizer No information available		
Supplier's details			
Supplier Address Keg River Chemical Corp. 10350 – 21 Street NW Edmonton, AB T6P 1W4 Toll Free: 1-888-512-2121 Tel: 780-417-2463 Fax: 780-416-0843			
Emergency telephone	e number		

Issuing Date: 18 June 2015 Revision Date: 23 March 2016

Emergency Telephone Number

Canada or USA: 1-888-512-2121

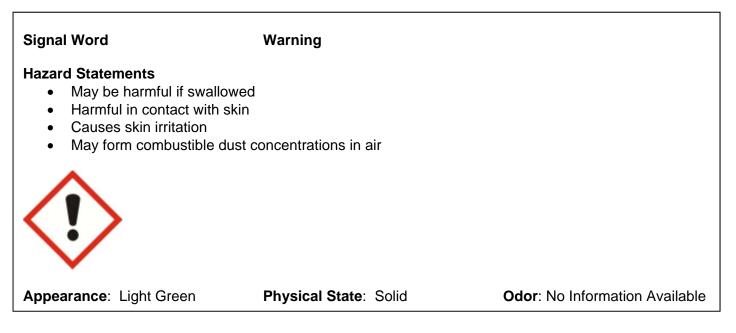
2. HAZARDS IDENTIFICATION

Classification

Acute Dermal Toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Combustible Dust	Yes

GHS Label elements, including precautionary statements

Emergency Overview



Precautionary Statements Prevention

- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash face, hands and any exposed skin thoroughly after handling.

General Advice

- Specific measures (see supplemental first aid instructions on this label)
- Specific treatment (see supplemental instructions on the administration of antidotes on this label)

Skin

- IF ON SKIN: Wash with plenty of soap and water.
- Call a POISON CENTER or doctor/physician if you feel unwell.
- If skin irritation occurs: Get medical advice/attention.
- Take off contaminated clothing and wash before reuse.

Storage

None

Disposal

• Dispose of contents/container to an approved waste disposal plant.

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

May cause irritation of respiratory tract. Contact with eyes may cause irritation. Powdered material may form explosive dust-air mixtures.

Synonyms

3. COMPOSITION / INFORMATION ON INGREDIENTS

Sulphur-Bentonite, N-90, Degradable Sulphur

Chemical Name	CAS-No	Weight %
Sulfur	7704-34-9	90
Bentonite	1302-78-9	10

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.	
Skin Contact	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Consult a physician.	
Inhalation	Move to fresh air. Get medical attention if symptoms occur.	
Ingestion	Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.	
Most important symptoms/effects, acute and delayed		

Most Important Symptoms/Effects Dermal irritation.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE – FIGHTING MEASURES

Suitable Extinguishing Media

Water spray or fog is preferred; if water not available use dry chemical, CO2 or regular foam. Small fires may be smothered with sand.

Unsuitable Extinguishing Media Do not scatter spilled material with high pressure water streams.

Specific Hazards Arising from the Chemical

Avoid dust formation. Dust suspended in air is readily ignited by flames, static electricity or friction spark. Every reasonable step must be taken to minimize dust formation. Sulfur dioxide reacts with water to form sulfuric acid.

Explosion DataSensitivity to Mechanical ImpactNoneSensitivity to Static DischargeYes

Protective Equipment and Precautions for Firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation. Avoid dust formation. Do not get in eyes. Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges. Wash thoroughly after handling.

Environmental Precautions Do not allow material to contaminate ground water system.

Methods and materials for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Ensure adequate ventilation. Do not get in eyes. Avoid dust formation in confined areas. Keep away from open flames, hot surfaces and sources of ignition. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Dust tight castings should be equipped with explosion relief vents. Sparkles electrical equipment is recommended.

Conditions for safe storage, including any incompatibilities

Storage Keep in a dry, cool and well-ventilated place.

Incompatible Products Incompatible with oxidizing agents; Acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHAPEL	NIOSH IDLH
Bentonite 1302-78-9	TWA: 1 mg/m ³ respirable fraction	-	-

Appropriate engineering controls

Engineering Measures Showers Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

- **Eye/Face Protection** Safety glasses with side-shields.
- Skin and Body Protection Long sleeved clothing. Impervious gloves.

Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive- pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Odor	Solid No information available		ppearance dor Threshold	Light Green No information available
Property			Values	Remarks/ - Method
рН			No data available	None known
Melting Point/Rang	je		119 °C	None known
Boiling Point/Boilir	ng Range		444 °C	None known
Flash Point			188 °C	None known
Evaporation rate F	lammability (solid, gas)		No data available	None known
Flammability Limits upper flammat			1400 gm/m ³	
Flammability Limits lower flammab			35 gm/m ³	
Vapor Pressure			No data available	None known
Vapor Density			No data available	None known
Specific Gravity			2.07	None known
Water Solubility			Insoluble	None known
Solubility in other	solvents		No data available	None known
Partition coefficien	t: n-octanol/water		No data available	None known
Auto-ignition Temp	perature		190 °C	None known
Decomposition Ter	mperature		No data available	None known
Viscosity			Solid	None known
Flammable Propert	Flammable Properties		Not Flammable	
Explosive Properties			No data available	
Oxidizing Properties			No data available	

Information on basic physical and chemical properties

Other information VOC Content (%)

None

10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing. Fine dust dispersed in air may ignite.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Dust formation. Exposure to air or moisture.

Incompatible materials

Incompatible with oxidizing agents; Acids.

Hazardous decomposition products

Sulfur dioxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	May cause irritation of respiratory tract.
Eye Contact	May cause irritation.
Skin Contact	May be absorbed through the skin in harmful amounts. May cause irritation.
Ingestion	May cause irritation to the gastrointestinal tract.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization	No information available.
Mutagenic Effects	No information available.
Carcinogenicity	Contains no ingredients above reportable quantities listed as a carcinogen.

Reproductive Toxicity No information available. STOT - single exposure No information available. STOT - repeated exposure No information available. Aspiration Hazard No information available.

Numerical measures of toxicity - Product

The following values are calculated based on chapter 3.1 of the GHS document:LD50 Oral2500 mg/kg; Acute toxicity estimateLD50 Dermal1222 mg/kg; Acute toxicity estimateInhalation6.9 mg/L; Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sulfur 7704-34-9	-	LC50: 866 mg/L Brachydanio rerio 96 h static LC50: <14 mg/L Lepomis macrochirus 96 h static LC50: >180 mg/L Oncorhynchus mykiss 96 h static	-	-
Bentonite 1302-78-9		LC50 96 h: 8.0-19.0 g/L (Salmo gairdneri) LC50 96 h: = 19000 mg/L static (Oncorhynchus mykiss)		

Persistence and Degradability	No information available.
Bioaccumulation	No information available.
Other Adverse Effects	No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.
Contaminated Packaging	Do not re-use empty containers.

14. TRANSPORTATION INFORMATION

DOT Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA All components of this product are either listed or are exempt on the TSCA inventory.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard Chronic Health Hazard	Yes No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants under the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

NutraSul 90 does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). Please check to see if specific reporting requirements exist at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65: This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Sulfur	X	X	X		X

U.S. EPA Label Information

EPA Pesticide Registration Number N

Not applicable

16. OTHER INFORMATION

NFPAHealth Hazard 1Flammability 1Instability 0Physical and Chemical Hazards -HMISHealth Hazard 1Flammability 1Physical Hazard 0Personal Protection X

Issuing Date18-June-2015Revision Date18-June-2015Revision NoteInitial Release.

General Disclaimer

The information presented in this Safety Data Sheet is correct to the best of our knowledge and information at the time of preparation. Please use the information only as a guideline for NutraSul 90; this sheet is not to be considered a warranty or quality specification. The information applies to NutraSul 90 only and is not necessarily valid when this material is used in combination with any other materials or in any process, unless specified here. The information contained here is not guaranteed to be completely accurate or complete. The user assumes all risks with using the product.

End of Safety Data Sheet