



MATERIAL DATA SHEET

I. PRODUCT AND COMPANY INFORMATION

TRADE NAME: Ultra Sperse
CHEMICAL FAMILY: Proprietary
CAS No: Various
Date Prepared: 8/22/2016

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II. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Reddish Brown Solid with small white specks.

OSHA Hazards: Moderate eye irritant, Carcinogen

GHS Classifications:

Acute Toxicity: Category 5, Oral

Aquatic Toxicity, Acute: Category 3

Aquatic Toxicity, Chronic: Category 3

Carcinogenicity: Category 1A

Eye Irritation: Category 2B

Skin Irritation: Category 3

III. COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	AMOUNT Wt%
Crystalline Silica	14808-60-7	1.00
Ferrous Sulfate	17375-41-6	5.00
Stannis Sulfate	7488-55-3	3.00
Methyl Ester of Sulfonated Tannin	Proprietary	41.00
Sodium Sulfate	7757-82-6	50.00

IV. FIRST AID MEASURES

Eye: Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect any unharmed eye.

Keep eye(s) open while rinsing. If eye irritation persists, consult a specialist.

Skin: Rinse well with water. Remove contaminated clothing and wash prior to re-use. If skin irritation persists, call a physician.

Ingestion: Keep respiratory tract clear. Never give anything by mouth to an unconscious person.

Inhalation: Move to fresh air. If symptoms persist, call a physician.

General advice: Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

V. FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:



Classification (29 CFR 1910.1200): Not flammable or combustible. This material will burn although it is not easily ignited.

NFPA RATINGS: Health: 0 Flammability: 0 Reactivity: 0

FLAMMABLE PROPERTIES:

Flashpoint: NDA

Autoignition: NDA

Flammability (Explosive) Limits (% by volume in air): Lower: NDA Upper: NDA

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: Material will not burn unless preheated. Clear fire area of all non-emergency personnel. Only enter confined fire space with full gear, including a positive pressure, NIOSH-approved, self-contained breathing apparatus. Cool surrounding equipment, fire-exposed containers and structures with water. Container areas exposed to direct flame contact should be cooled with large quantities of water (500 gallons water per minute flame impingement exposure) to prevent weakening of container structure.

Combustion Products: No data available.

Flash Point:	N/A
Auto ignition Temperature:	No Data Available
Unsuitable Extinguishing Media:	High Volume Water Jet
Fire Fighting Hazards:	Do Not allow run-off from fire fighting to enter drains or water ways.
Additional Information:	Collect contaminated fire extinguishing waters separately. This must not be discharged to drains. Fire residues and contaminated water must be disposed of in accordance with local regulations.
Fire and Explosion:	Avoid dust formation. Provide appropriate exhaust ventilation where dust is formed.
Hazardous Decomposition Products:	Iron oxides. Sulfur oxides.
Fire-Fighting Protective Equipment:	If needed, wear self contained breathing apparatus.

VI. ACCIDENTAL RELEASE MEASURES

Protective Measures:	Use personal protective equipment. Avoid dust formation and breathing of dust. Ensure adequate ventilation.
Environmental Precautions:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Clean Up Methods:	Keep in suitable closed containers for disposal.

VII. HANDLING AND STORAGE

Handling:	Avoid formation of dust / respirable particles. Provide appropriate exhaust ventilation where dust is formed. Do not breath vapors/dust. Avoid contact with eyes and skin. Smoking, eating, and drinking should be prohibited in applicable areas. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. See Section VIII EXPOSURE CONTROL/PESONAL PROTECTION for additional information.
Storage:	Keep containers tightly closed in a dry and well-ventilated place. Containers which are opened must be resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the appropriate safety



	standards.
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VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

General Considerations:	Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment. When using product do not eat, drink or smoke in the work area. Wash hands before breaks and at the end of workday.
Eye/Face Protection:	Wear eye protection such as safety glasses, chemical goggles, or face shields if engineering controls or work practices are not adequate to prevent eye contact. Have a pure eye wash water source available.
Skin Protection:	Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Users should determine acceptable performance characteristics of protective clothing and choose protection according to the amount and concentration of the dangerous substances in the work place. Consider physical requirements and other substances present when selecting protective clothing.
Respiratory Protection:	In the case of dust or aerosol formation use respirator with an approved filter. Dust safety masks are recommended when the dust concentration is more than 10 mg/m3.

Occupational Exposure Limits:

COMPONENT	BASIS	VALUE	CONTROL PARAMETER	NOTE
Crystalline Silica	ACGIH	TWA	0.025 mg/m3	A2, Respirable Fraction
	OSHA Z1A	TWA	0.1 mg/m3	Respirable fraction
	NIOSH REL	TWA	0.05 mg/m3	Ca, (Respirable dust)

A2	Suspected human carcinogen: Human data are accepted as adequate in quality but are conflicting or insufficient to classify the agent as a confirmed human carcinogen; OR, the agent is carcinogenic in experimental animals at doses, by routes of exposure, at sites, of histologic types or by mechanisms considered relevant to worker exposure. The A2 is used primarily when there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals with relevance to humans.
Ca	Potential Occupational Carcinogen

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Reddish Brown Powder with small white specks
Odor:	Odorless
Auto ignition:	No Data Available
Flash Point:	N/A
Explosion Limit, Lower:	N/A
Explosion Limit, Upper:	N/A
Evaporation Rate:	N/A
Oxidizing Properties:	None
Boiling Point:	N/A
Molecular Formula:	Mixture



Molecular Weight:	N/A
pH:	No Data Available
Pour Point:	No Data Available
Boiling Point:	N/A
Vapor Pressure:	N/A
Solubility (in water):	Partly Soluble
Vapor Density (AIR=1):	N/A
Viscosity, kinematic:	N/A
Octanol / Water Partition Coefficient:	No Data Available

X. STABILITY AND REACTIVITY

Chemical Stability:	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Keep in dry place.
Conditions to Avoid:	May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous Decomposition Products:	None if stored as indicated.

XI. TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS:

Acute Oral Toxicity:	Estimate: 3,280.98 mg/kg (Calculation Method) Sodium Sulfate: Acute oral toxicity (LD50): 5989 mg/kg [Mouse]	
Acute Inhalation Toxicity:	Sulfomethylated tannin	LC50: > 6.66 mg/l Exposure time: 4 HR Species: Rat Information given based on data obtained from similar substances.
	Stannous Sulfate	LC50: Not known
Acute Dermal Toxicity:	Sulfomethylated tannin	LD50: PNT Species: Rabbit
	Stannous Sulfate	LD50: Not known
Skin Irritation:	May cause skin irritation	
Aspiration toxicity:	No classification	
Eye Irritation:	May cause eye irritation	

XII. ECOLOGICAL INFORMATION

ECOTOXICITY:

Toxicity to Fish:	Methyl Ester of Sulfomethylated tannin	LC50: 1,800 mg/l Exposure time: 96 HR Species: Scophthalmus maxiumus (Flatfish, Flounder)
	Ferrous Sulfate	LL50: > 6.25 ml/l Exposure time: 96 HR Species: Cyprinodon variegatus (sheepshead minnow) Method: OECD Test Guideline 203
Toxicity to Daphnia	Methyl Ester of	EC50: 73.2 mg/l



and other aquatic invertebrates:	Sulfomethylated tannin	Exposure time: 48 HR Species: Acartia tonsa (Marine Copepod)
	Ferrous Sulfate	LC50: 190 ml/l Exposure time: 48 HR Species: Acartia tonsa (Marine Copepod)
Toxicity to algae:	Methyl Ester of Sulfomethylated tannin	EL50: 70 ml/l Exposure time: 72 HR Species: Desmodesmus subspicatus (green algae)
	Ferrous Sulfate	EL50: 45 mg/l Exposure time: 72 HR Species: Skeletonema costatum (Marine Algae)

ENVIRONMENTAL FATE:

Biodegradability:	N/A
Additional Information:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

XIII. DISPOSAL CONSIDERATIONS

The information in this MSDS pertains only to the product as shipped.
Product should not be allowed to enter drains, watercourses or soil. Do not contaminate ponds, waterways or ditches with chemical or used containers. Send to a licensed waste management company.
Discarded packaging/containers should be emptied and disposed of as unused product. Do not re-use empty packaging/containers.
Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

XIV. TRANSPORT INFORMATION

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the MSDS and the bill of lading.



Shipping Descriptions per regulatory authority.

US DOT

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

ICAO / IATA

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

IMO / IMDG

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

RID / ADR

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

XV. REGULATORY INFORMATION

SARA 311/312 CATEGORIES:

1. Immediate (Acute) Health Effects:	YES
2. Delayed (Chronic) Health Effects:	YES
3. Fire Hazard:	NO
4. Sudden Release of Pressure Hazard:	NO
5. Reactivity Hazard:	NO

SARA 302 Reportable Quantity

No chemicals in this material are subject to the reporting requirements of SARA III, Section 302
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SARA 313 ingredients

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Ozone-Depletion Potential:	This product neither contains, nor was manufactured with a Class 1 or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Supt. A, App. A+B).
This product does not contain any hazardous air pollutants (HAP) as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).	
This product does not contain any chemicals listed under U.S. Clear Air Acid Section 112(r) for Accidental Release Prevention (40 CFR 68. 130, Subpart F).	

US State Regulations:

Pennsylvania Right to Know	Ferrous Sulfate	17375-41-6
	Sodium Sulfate	7757-82-6
New Jersey Right to Know	Ferrous Sulfate	17375-41-6
	Crystalline Silica	14808-60-7
	Sodium Sulfate	7757-82-6

California Prop. 65	Warning! This product contains a chemical known in the State of California to cause cancer.
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Notification Status

Europe REACH:	On the inventory, or in compliance with the inventory
United States of America TSCA	On the inventory, or in compliance with the inventory
Canada DSL	On the inventory, or in compliance with the inventory
Australia AICS	On the inventory, or in compliance with the inventory
New Zealand NZIoC	Not in compliance with the inventory
Japan ENCS	Not in compliance with the inventory



Korea KECI	On the inventory, or in compliance with the inventory
Philippines PICCS	Not in compliance with the inventory
China IECSC	On the inventory, or in compliance with the inventory

XVI. OTHER INFORMATION

NFPA RATINGS: Health: 1 Flammability: 0 Reactivity: 0 Special: NA

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA).

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

ACGIH	American Conference of Government Industrial Hygienists	LOAEL	Lowest Observed Adverse Effect Level
AICS	Australia, Inventory of Chemical Substances	NFPA	National Fire Protection Agency
DSL	Canada, Domestic Substances List	NIOSH	National Institute for Occupational Safety and Health
NDSL	Canada, Non-Domestic Substances List	NTP	National Toxicology Program
CNS	Central Nervous System	NZIoC	New Zealand Inventory of Chemicals
CAS	Chemical Abstract Service	NOAEL	NO Observable Adverse Effect Level
EC50	Effective Concentration	NOEC	No Observed Effect Concentration
EC50	Effective Concentration 50%	OSHA	Occupational Safety & Health Administration
EINECS	European Inventory of Existing Chemical Substances	PEL	Permissible Exposure Limit
MAK	Germany Maximum Concentration Values	PICCS	Philippines Inventory of Commercial Chemical Substances
GHS	Globally Harmonized System	PRNT	Presumed Not Toxic
>=	Greater Than or Equal To	RCRA	Resource Conservation Recovery Act
IC50	Inhibition Concentration 50%	STEL	Short-term Exposure Limit
IARC	International Agency for REsear4ch on Cancer	SARA	Superfund Amendments and Reauthorization Act
IECSC	Inventory of Existing Chemical Substances in China	TLV	Threshold Limit Value
ENCS	Japan, Inventory of Existing and New Chemical Substances	TWA	Time Weighted Average
KECI	Korea, Existing Chemical Inventory	TSCA	Toxic Substance Control Act
<=	Less Than or Equal To	UVCB	Unknown or variable composition, Complex Reaction Products, and Biological Materials
LC50	Lethal Concentration 50%	WHMIS	Workplace Hazardous Materials Information system
LD50	Lethal Dose 50%		