



MATERIAL SAFETY DATA SHEET

MSDS

OAT STARCH

1. PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name: OAT STARCH
 Product Use: Personal Care Formulations
 Company Name: Natural Sourcing
 Company Address: 341 Christian Street, Oxford, CT 06478, USA
 Date Issued: 02/05/2014
 Emergency Telephone Number: Chemtrec Tel: (800) 262-8200

2. COMPOSITION/INGREDIENT INFORMATION

Ingredients:

Oats (Avena Sativa) 100%

Hazardous Components:	OSHA PEL	ACGIH TLV	Other Limits	%
Grain related dust:	15 mg/m ³ (total)	4 mg/m ³ (total)	None	Variable
Nuisance particulates:	5 mg/m ³ (respirable)			

3. HAZARDS IDENTIFICATION

Potential Hazards Under 29 CFR 1910.1200:

Combustible Liquid: Yes
 Flammable Material: No
 Pyrophoric Material: Yes
 Explosive Material: Yes*
 Unstable Material: No
 Water Reactive Material: No
 Oxidizer: No
 Organic Products: No
 Corrosive Material: No
 Skin Hazard: No
 Eye Hazard: Yes
 Toxic Agent: No
 Highly Toxic Agent: No
 Sensitizer: No
 Carcinogen: Yes

Reproductive Toxin:	Yes
Blood Toxin:	No
Nervous System Toxin:	No
Lung Toxin:	Yes
Liver Toxin:	No
Kidney Toxin:	No
Compressed Gas:	No
Irritant:	No

* Under certain limited conditions (See Section 5)

4. FIRST AID MEASURES

Routes of Entry

Inhalation: Irritation may occur from airborne particles

First Aid Measures

Eyes: Flush with plenty of water or eye wash solution for 15 minutes. Get medical attention if irritation persists.

Skin: Wash with soap and water- get medical attention if irritation persists.

Inhalation: Remove to fresh air and seek medical attention if breathing is difficult.

Medical Conditions Generally Aggravated by Exposure: Allergies caused by grain related products.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Water, Foam, CO2 or Halogen Extinguishing Media

Special Firefighting Procedures: None

Unusual Fire & Explosion Hazards: Sufficient concentrations of airborne dust can produce explosion hazard. Keep free of ignition sources.

Hazardous Thermal Decomposition Products:

6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

Personal Precautions: Beware of slippery conditions. See Section 8

Methods for Cleaning Up: Sweep, preferably vacuum material. Avoid inhalation of dust.

7. HANDLING AND STORAGE

Handling

Safe Handling: Handle in a manner that will produce minimal dust generation. Regular housekeeping should be performed. Vacuuming (preferred method) or dry sweeping is recommended to avoid creating clouds of dust.

Housekeeping:

Storage

Requirements for Storage Areas and Containers: Store in a cool, dry location, in a sealed container.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Eye:	Protective goggles are advised if eye irritation is experienced or if eye contact is likely.
Skin/Body:	Gloves and aprons should be worn.
Respiratory:	In cases of excessive dust concentrations an OSHA/NIOSH approved respirator for dusts should be worn. Capture of grain dust at point of generation is the preferred method and should be implemented as necessary to control dust concentration. Ventilation and dust control measures must be adequate to keep dust concentrations below explosive concentrations of 20,000 – 50,000 mg/m ³ .
Ventilation:	Evaluate need based on application. Slip proof shoes may be worn where spills may occur. In areas of high dust concentrations all ignition sources should be eliminated.
Other:	Intrinsically safe or spark proof equipment should be used.
Work/Hygiene Practice:	Normal work and hygiene practices

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Powder
Color:	Off White
Odor:	Characteristic of oats
Flash Point:	N/A
Solubility in Water:	Minimal
Explosion Hazard:	Possibility of dust explosion

10. STABILITY AND REACTIVITY

Stability:	Stable under ordinary conditions of use and storage
Incompatibility (Materials to Avoid):	None known
Conditions to Avoid:	When handled or used improperly this product can produce significant quantities of airborne dust. Sufficient dust concentrations can produce an explosion hazard when mixed with air in critical proportions and in the presence of an ignition source. Adequate ventilation, proper handling techniques and good housekeeping procedures will help to eliminate the explosion potential.
Hazardous Polymerization:	Will Not Occur

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation
Acute:	Exposure to high airborne dust concentrations can produce eye (particularly the conjunctiva) and nasal irritation. If inhalation exposures are maintained below the TLV, no chronic effects are expected. However, exposure may produce a respiratory allergic response, leading to grain dust asthma in some hypersensitive individuals. This is found to be particularly evident in individuals with a family history of allergies. Recent evidence suggests that an increased prevalence of chronic bronchitis may occur among individuals exposed to high concentrations of grain related dust for long periods of time.
Chronic:	

Signs and Symptoms of Exposure: Productive cough, tearing and redness in eyes, and breathlessness.
Medical Conditions Aggravated by Exposure: Allergies caused by grain related products.
Carcinogenicity: NTP: No IARC Monographs: No OSHA Regulated: No
Additional Comments: Smoking tobacco products may increase the bronchitis and asthma incidence.

12. ECOLOGICAL INFORMATION

Ecotoxicity: N/A
Biodegradation: N/A

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: No special procedure for disposal must be followed. This material is not defined as a hazardous material under RCRA.

14. TRANSPORT INFORMATION

DOT Classification: Not regulated
Class/Division: Not restricted
Proper Shipping Name: NA
Label: None
Packing Group: NA
ID Number: NA
Hazard: NA

15. REGULATORY INFORMATION

Hazard Symbols: None
Regulations concerning transport of dangerous substance are not applicable.

16. ADDITIONAL INFORMATION

This information is provided for documentation purposes only.
This product is not considered hazardous.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.