

Product Name: AGRO-LIG U.F. HUMUS**Product ID # 173****SECTION I MANUFACTURER'S INFORMATION**

Manufacturer's Name And Address:

NAP Chemical
821 S. Chestnut
Pasco, WA. 99301Emergency Telephone Number:
Number for Information
Date Prepared:509-547-8234
509-547-8234
January 20, 1991**SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

(Specific Chemical Identity): Common Name(s)

| | OSHA PEL | ACGIH TLV | Other Limits Recommended | % Optional |
|------------------------------------|----------|-------------|--------------------------|------------|
| Coal Dust CAS # - None | | | | |
| <u>10mg/m3</u> =1.5 mg/m3 | | 0.1 mg/m3 | | |
| %siO2+2 | | | | |
| Crystalline Quartz CAS #14808-60-7 | | | 2-6% | |
| Respirable Crystalline Quartz | | | | |
| Present (TWA) | 0.1mg/m3 | 0.1mg/m3 | 50ug/m3 TWA | 2% |
| Proposed (TWA) | | 50ug/m3 TWA | | |
| Nuisance Dust | | | | |
| -Respirable | 5 mg/m3 | 5 mg/m3 | | |
| -Total | 15 mg/m3 | 10 mg/m3 | | |

***WARNING*:**

This product contains a small amount of crystalline silica which may cause delayed respiratory disease if inhaled over a prolonged period of time. Avoid breathing dust. Use NIOSH/MSHA approved Respirator where TLV for crystalline silica may be exceeded. IARC Monographs on the evaluation of the "Carcinogenic Risk of Humans"(volume 42,1987) concludes that there is "limited evidence" of the carcinogenicity of Crystalline silica to humans. IARC classification 2A.

PRODUCT IDENTIFICATION

Chemical Name: Naturally occurring mineral, Leonardite

Chemical Family: North Dakota Crude Humic Acid

CAS No.:1415-93-6

NFPA/HMIS: Health-0, Fire -4, Reactivity-0, Specific Hazard-None

Dot Class: Not Regulated

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|-------------------------|---|-----------------------------------|------|
| Boiling Point | -N/A | Specific Gravity(H2O=1) | -1.5 |
| Vapor Pressure(mm Hg.) | -N/A | Melting Point | -N/A |
| Vapor Density (AIR = 1) | -N/A | Evaporation Rate(Butyl Acetate=1) | -N/A |
| Solubility In Water | -0%-Negligible | | |
| Appearance and Odor | -Deep brown to black powder, almost odorless. | | |

SECTION IV FIRE AND EXPLOSION HAZARD DATA

| | |
|------------------------------------|--|
| Flash Point(Method Used) | -400° F Cleveland Cup Method |
| Flammable Limits | -Not Available |
| Extinguishing Media | -Water, Fog, Foam, Rock Dust |
| Special Fire Fighting Procedures | -Do not stir up dust with hose streams |
| Unusual Fire And Explosion Hazards | - May explode if dust is suspended in air and ignition source is present. Granules burn similarly to coal or wood. |

SECTION V REACTIVITY DATA

| | | |
|---|------------------------------|-------------|
| Stability -Unstable | Conditions to Avoid | -None Known |
| -Stable X | | |
| Incompatibility (Materials to Avoid) | -None Known | |
| Hazardous Decomposition or By-products - When Burned: | CO, CO2, SO2 Hydrocarbons | |
| Hazardous Polymerization | -May Occur | |
| | -Will not Occur- X | |

Conditions to Avoid - None Known

SECTION VI HEALTH HAZARD DATA

Route(s) of entry: Inhalation? -Yes Skin? - No Ingestion? -No
Health Hazards(Acute and Chronic) - May cause delayed respiratory disease if dust inhaled over a period of time. Can cause eye irritation.
Carcinogenicity: NIP? -No IARC Monographs? - Yes
OSHA Regulated? -No
IARC Monographs on the evaluation of the "Carcinogenic Risk of Chemicals to Humans" (volume 42, 1987) concludes that there is "Limited Evidence" of the carcinogenicity of crystalline silica to humans. IARC classification 2A.
Signs and Symptoms of Exposure - Excessive inhalation of dust may result in shortness of breath and reduced pulmonary function.
Medical Conditions Generally Aggravated by Exposure - Individuals with pulmonary and/or respiratory disease including but not limited to asthma and bronchitis should be precluded from exposure to dust.
Emergency and First Aid Procedures -Eyes: Flush with water, see physician if discomfort persists.
-Skin: Wash with water
-Gross Inhalation if Dust: Remove to fresh air;give oxygen artificial respiration if necessary;get medical attention.

SECTION VII PRECAUTION FOR SAFE HANDLING AND USE

Steps to be taken in case Material is released or spilled - Vacuum if possible to avoid generating airborne dust. Avoid breathing dust.Wear an approved respirator.
Waste Disposal Method - Follow Federal, State and Local regulations for solid waste.
Precautions to be taken in handling and storing - Avoid breathing dust, use NIOSHA/NSHA approved respirator where TLV limits for crystalline silica may be exceeded.
Other Precautions - Keep away from heat , sparks, and open flame.

SECTION VIII CONTROL MEASURES

Respiratory Protection(Specific type) - OSHA Standard 1910. 134 or ANSI Z88.2-1980 specification.
Ventilation Local Exhaust -As Appropriate Special -None
Mechanical(General) -As Appropriate Other -None
Eye Protection -Recommended
Protective Gloves - Not Required
Other Protective Clothing or Equipment - None
Work/Hygienic Practices - Use good housekeeping practices.