

005050

## MATERIAL SAFETY DATA SHEET

BeeF Cox-10x

Product Name: DECCOX 10X

Product Code: 23

This product contains the following ingredients that are reportable under the Occupational Safety and Health Administration's Hazard Communication Standard, (29 CFR 1910.1200).

DECCOX  
MINERAL OIL  
CALCIUM CARBONATE  
RICE HULL

Material Safety Data Sheets for each of these ingredients are attached to serve as the Material Safety Data Sheet for . International Nutrition will update your company with any new information pertaining to these ingredients, as it is available.

Date Prepared: 9/18/06

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Material Safety Data Sheet

Date Prepared: 2/16/96 Supersedes Date: 0/00/00

**1. CHEMICAL PRODUCT AND COMPANY DESCRIPTION**

RHONE-POULENC, INC.  
ANIMAL NUTRITION  
500 Northridge Road  
Atlanta GA 30350

**Emergency Phone Numbers:**  
FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT  
CONTACT: CHEMTREC (800-424-9300) OR RHONE-POULENC (800-334-7577).

**For Product Information:**  
(770) 642-7144

**Chemical Name or Synonym:**  
ETHYL 6-(DECYLOXY)-7-ETHOXY-4-HYDROXY-3-QUINOLINECARBOXYLATE

**Molecular Formula:**  
C<sub>24</sub> H<sub>35</sub> N O<sub>5</sub>

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS Reg Number	OSHA Hazard	Percentage
DECOQUINATE	18507-89-6	N	6
LECITHINS	8002-43-5	N	A
SOYBEAN OIL	8001-22-7	N	B
CORN MEAL	68525-86-0	N	C
PRECIPITATED SILICA	112926-00-8	Y	D
( A + B + C + D ) =	*****	N	94

**3. HAZARDS IDENTIFICATION**

**A. EMERGENCY OVERVIEW:**

**Physical Appearance and Odor:**  
cream colored fine powder solid, slight odor.

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**3. HAZARDS IDENTIFICATION (Continued)**

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**Warning Statements:**

DUSTS IN HIGH CONCENTRATIONS MAY CAUSE SKIN, EYE AND RESPIRATORY TRACT IRRITATION.

**B. POTENTIAL HEALTH EFFECTS:**

**Acute Eye:**

Dusts may cause irritation.

**Acute Skin:**

Low acute dermal toxicity. Non-irritating.

**Acute Inhalation:**

Dusts may cause upper respiratory tract irritation.

**Acute Ingestion:**

Practically non-toxic.

**Chronic Effects:**

This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

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**4. FIRST AID MEASURES**

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**FIRST AID MEASURES FOR ACCIDENTAL:**

**Eye Exposure:**

Rinse particulate matter from eye. Seek medical attention if irritation develops or persists or if visual changes occur.

**Skin Exposure:**

In case of contact, wash with plenty of soap and water. Seek medical attention if irritation develops or persists.

**Inhalation:**

If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

**Ingestion:**

If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim unattended.

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**4. FIRST AID MEASURES (Continued)**

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**MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:**

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis.

**NOTES TO PHYSICIAN:**

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Treat symptomatically. No specific antidote available.

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**5. FIRE FIGHTING MEASURES**

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**FIRE HAZARD DATA:**

**Flash Point:**

> 93 C (200 F). Flammability Class: WILL BURN.

**Method Used:**

Closed cup

**Flammability Limits (vol/vol%):** Lower: Upper:  
No Data No Data

**Extinguishing Media:**

dry chemical, carbon dioxide, foam, water.

**Special Fire Fighting Procedures:**

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

**Unusual Fire and Explosion Hazards:**

Product will burn under fire conditions. Like all organic and most dry chemicals, as a powder or dust, this product (when mixed with air in critical proportions and in the presence of an ignition source) may present an explosion hazard.

**Hazardous Decomposition Materials (Under Fire Conditions):**

oxides of nitrogen

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**5. FIRE FIGHTING MEASURES (Continued)**

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oxides of carbon  
oxides of silicon

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**6. ACCIDENTAL RELEASE MEASURES**

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**Evacuation Procedures and Safety:**

Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

**Containment of Spill:**

Follow procedure described below under Cleanup and Disposal of Spill.

**Cleanup and Disposal of Spill:**

Sweep up and place in an appropriate closed container (see Section 7: Handling and Storage). Clean up residual material by washing area with water. Collect washings for disposal.

**Environmental and Regulatory Reporting:**

Do not flush to drain. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

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**7. HANDLING AND STORAGE**

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**Minimum/Maximum Storage Temperatures:**  
No Data Available

**Handling:**

THIS IS A RESTRICTED DRUG--USE ONLY AS DIRECTED. READ LABEL CAREFULLY BEFORE USE. KEEP OUT OF REACH OF CHILDREN AND ANIMALS. Avoid direct or prolonged contact with skin and eyes. Avoid breathing dusts. Do not feed to animals producing milk for food. Do not feed to laying chickens.

Dry powders can build static electricity charges when subjected to the friction of conveying, mixing or sliding. Provide adequate precautions, such as electrical grounding, or inert atmospheres when material is used in the presence of flammable materials to prevent ignition.

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**7. HANDLING AND STORAGE (Continued)**

**Storage:**

Store in tightly closed containers. Store in an area that is cool, dry, well-ventilated, away from foodstuffs or animal feed.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Introductory Remarks:**

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

**Exposure Guidelines:**

Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting OSHA requirements. The following limits (ACGIH, OSHA and other) apply to this material, where, if indicated, S=skin and C=ceiling limit:

**PRECIPITATED SILICA**

	Notes	TWA	STEL
ACGIH		10 mg/cu m	
OSHA		6 mg/cu m	

**Engineering Controls:**

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: general area dilution/exhaust ventilation.

**Respiratory Protection:**

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Continued)**

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with the latest OSHA standard (29 CFR 1910.134) and/or ANSI Z88.2 recommendations.

Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by OSHA/ANSI: dust/mist filtering respirator.

**Eye/Face Protection:**

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.

**Skin Protection:**

Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.

**Work Practice Controls:**

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- (3) Wash exposed skin promptly to remove accidental splashes of contact with this material.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

**Physical Appearance:**End of Page **6**

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**9. PHYSICAL AND CHEMICAL PROPERTIES (Continued)**

cream colored fine powder solid.

Odor:  
slight odor.

pH:  
Not Applicable

Specific Gravity:  
No Data Available

Water Solubility:  
insoluble

Melting Point Range:  
No Data Available

Boiling Point Range:  
No Data Available

Vapor Pressure:  
No Data Available

Vapor Density:  
No Data Available

**10. STABILITY AND REACTIVITY**

Chemical Stability:  
This material is stable under normal handling and storage conditions described in Section 7.

Conditions To Be Avoided:  
direct sunlight  
dusting conditions  
extreme heat  
open flame

Materials/Chemicals To Be Avoided:  
strong bases  
strong oxidizing agents

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**10. STABILITY AND REACTIVITY (Continued)**

The Following Hazardous Decomposition Products Might Be Expected:

- Decomposition Type: thermal
- oxides of nitrogen
- oxides of carbon
- oxides of silicon

Hazardous Polymerization Will Not Occur.

Avoid The Following To Inhibit Hazardous Polymerization:  
not applicable

**11. TOXICOLOGICAL INFORMATION**

**Acute Eye Irritation:**

No test data found for product.

**Acute Skin Irritation:**

No test data found for product.

**Acute Dermal Toxicity:**

No test data found for product.

**Acute Respiratory Irritation:**

**Acute Inhalation Toxicity:**

No test data found for product.

**Toxicological Information and Interpretation**

LCLo - lowest lethal concentration, > 4 g/cu m/6 hr, rat.  
For decoquinatate, rats exposed continuously to the dust at a nominal concentration of 4 g/cu m for 6 hours showed no sign of irritation or other deleterious effects during and after exposure.

**Acute Oral Toxicity:**

**Toxicological Information and Interpretation**

LD50 - lethal dose 50% of test species, > 5000 mg/kg, rat.  
For decoquinatate.

**Chronic Toxicity:**

This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens.

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**11. TOXICOLOGICAL INFORMATION (Continued)**

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No additional test data found for product.

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**12. ECOLOGICAL INFORMATION**

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**Ecotoxicological Information:**

No data found for product.

**Chemical Fate Information:**

No data found for product.

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**13. DISPOSAL CONSIDERATIONS**

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**Waste Disposal Method:**

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

**Container Handling and Disposal:**

Any containers or equipment used should be decontaminated immediately after use.

EPA Hazardous Waste - NO

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**14. TRANSPORTATION INFORMATION**

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**Transportation Status:**

US Department of Transportation

DOT Shipping Name:

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**14. TRANSPORTATION INFORMATION (Continued)**

NOT REGULATED

**15. REGULATORY INFORMATION**

**FEDERAL REGULATIONS**

**TSCA Inventory Status:**

This product is excluded from TSCA because it is solely for FDA regulated use.

**SARA Title III Hazard Classes:**

- Fire Hazard - NO
- Reactive Hazard - NO
- Release of Pressure - NO
- Acute Health Hazard - NO
- Chronic Health Hazard - NO

**STATE REGULATIONS:**

This product does not contain any components that are regulated under California Proposition 65.

**16. OTHER INFORMATION**

**National Fire Protection Association Hazard Ratings--NFPA(R):**

- 0 Health Hazard Rating--Minimal
- 1 Flammability Rating--Slight
- 0 Reactivity Rating--Minimal

**National Paint & Coating Hazardous Materials Identification System--HMIS(R):**

- 0 Health Hazard Rating--Minimal
- 1 Flammability Rating--Slight
- 0 Reactivity Rating--Minimal

**Reason for Revisions:**

Conversion to ANSI MSDS format.

**Key Legend Information:**

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16. OTHER INFORMATION (Continued)

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NAV - Not Available  
NAP - Not Applicable  
ND - Not Determined  
ACGIH - American Conference of Governmental Industrial Hygienists  
OSHA - Occupational Safety and Health Administration  
TLV - Threshold Limit Value  
PEL - Permissible Exposure Limit  
TWA - Time Weighted Average  
STEL - Short Term Exposure Limit  
NTP - National Toxicology Program  
IARC - International Agency for Research on Cancer

**Disclaimer:**

The information herein is given in good faith but no warranty, expressed or implied, is made.



# MATERIAL SAFETY DATA SHEET

## Penreco® Drakeol® LT Mineral Oil N.F.

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Penreco® Drakeol® LT Mineral Oil N.F.  
**Synonyms:** Penreco® Drakeol® 100G, Penreco® Drakeol® 100  
Penreco® Drakeol® 5, 5A., 6, 6LP, 6VR, 7, 7A, 7PG, 8, 9, 10, 13, 15, GD  
Peneteck® and Drakesol® 260-AT  
White Mineral Oil

**Intended Use:** General White Oil

**Responsible Party:** Penreco  
8701 New Trails Dr. Suite 175  
The Woodlands, TX 77381

**Customer Service:** 800-245-3952  
www.penreco.com

**Technical Information:** 800-245-3952

### Emergency Overview

**24 Hour Emergency Telephone Numbers:**  
Spill, Leak, Fire or Accident Call CHEMTREC:  
North America: (800) 424-9300  
Others: (703) 527-3887 (collect)

California Poison Control System: (800) 356-3219

**Health Hazards/Precautionary Measures:** None anticipated.

**Physical Hazards/Precautionary Measures:** Keep away from all sources of ignition.

**Appearance:** Transparent Water-white  
**Physical Form:** Liquid  
**Odor:** None

**NFPA 704 Hazard Class:**  
**Health:** 0 (Least)  
**Flammability:** 1 (Slight)  
**Instability:** 0 (Least)

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

NON-HAZARDOUS COMPONENTS					
Component / CAS No:	Concentration (wt %)	ACGIH:	OSHA:	NIOSH:	Other:
White Mineral Oil 8042-47-5	100	5 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup> STEL	5 mg/m <sup>3</sup> TWA	2500 mg/m <sup>3</sup> IDLH	As Oil Mist, If Generated  5 mg/m <sup>3</sup> NOHSC TWA

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

1%=10,000 PPM.

NE=Not Established

### 3. HAZARDS IDENTIFICATION

#### Potential Health Effects

**Eye:** Not known to be an eye irritant.

**Skin:** Not known to be a skin irritant. No harmful effects from skin absorption have been reported.

**Inhalation (Breathing):** No harmful effects reported.

**Ingestion (Swallowing):** No harmful effects reported from ingestion.

**Signs and Symptoms:** Effects of overexposure may include diarrhea, irritation of the digestive tract, irritation of the respiratory tract.

**Cancer:** No evidence of cancer has been demonstrated in several well conducted animal studies.

**Target Organs:** No data available for this material.

**Developmental:** No data available for this material.

**Pre-Existing Medical Conditions:** None known.

### 4. FIRST AID MEASURES

**Eye:** If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

**Skin:** First aid is not normally required. However, it is good practice to wash any chemical from the skin.

**Inhalation (Breathing):** First aid is not normally required. If breathing difficulties develop, move victim away from source of exposure and into fresh air. Seek immediate medical attention.

**Ingestion (Swallowing):** First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

#### **Notes to Physician:**

Acute aspirations of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

### 5. FIRE-FIGHTING MEASURES

#### Flammable Properties:

<b>Flash Point:</b>	> 320°F / 160°C
<b>Test Method:</b>	Cleveland Open Cup (COC), ASTM D92
<b>OSHA Flammability Class:</b>	Not applicable
<b>LEL%:</b>	No data
<b>UEL%:</b>	No data
<b>Autoignition Temperature:</b>	No data

**Unusual Fire & Explosion Hazards:** This material may burn, but will not ignite readily. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire.

**Extinguishing Media:** Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

**Fire Fighting Instructions:** For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

## 6. ACCIDENTAL RELEASE MEASURES

This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release.

Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material.

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended.

## 7. HANDLING AND STORAGE

**Handling:** Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Sections 2 and 8).

Do not wear contaminated clothing or shoes. Use good personal hygiene practices.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

**Storage:** Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering controls:** If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional engineering controls may be required.

### Personal Protective Equipment (PPE):

**Respiratory:** A NIOSH certified air purifying respirator with a Type 95 (R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2).

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a NIOSH approved self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**Skin:** Not required based on the hazards of the material. However, it is considered good practice to wear gloves when handling chemicals.

**Eye/Face:** While contact with this material is not expected to cause irritation, the use of approved eye protection to safeguard against potential eye contact is considered good practice.

**Other Protective Equipment:** A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

Suggestions for the use of specific protective materials are based on readily available published data. Users should check with specific manufacturers to confirm the performance of their products.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Note:** Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

<b>Appearance:</b>	Transparent Water-white
<b>Physical Form:</b>	Liquid
<b>Odor:</b>	None
<b>Odor Threshold:</b>	No data
<b>pH:</b>	Not applicable
<b>Vapor Pressure (mm Hg):</b>	< 0.1
<b>Vapor Density (air=1):</b>	>1
<b>Boiling Point:</b>	500-800°F / 260-428°C
<b>Solubility in Water:</b>	Negligible
<b>Partition Coefficient (n-octanol/water) (Kow):</b>	No data
<b>Specific Gravity:</b>	Approx. 0.83@ 60°F (15.6°C)
<b>Evaporation Rate (nBuAc=1):</b>	<1
<b>Flash Point:</b>	> 320°F / 160°C
<b>Test Method:</b>	Cleveland Open Cup (COC), ASTM D92
<b>LEL%:</b>	No data
<b>UEL%:</b>	No data
<b>Autoignition Temperature:</b>	No data
<b>Decomposition Temperature:</b>	No data

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Conditions to Avoid:** Avoid high temperatures and all sources of ignition (see Sections 5 and 7).

**Materials to Avoid (Incompatible Materials):** Avoid contact with strong oxidizing agents.

**Hazardous Decomposition Products:** Combustion can yield carbon dioxide, carbon monoxide, and other oxides.

**Hazardous Polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Chronic Data:

No definitive information available on carcinogenicity, mutagenicity, target organ, or developmental toxicity.

### Acute Data:

#### **White Mineral Oil (8042-47-5)**

*Dermal LD50*= >2 g/kg

*LC50*= >5 mg/l (rat)

*Oral LD50*= >5 g/kg (rat)



## 12. ECOLOGICAL INFORMATION

Not evaluated at this time.

## 13. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, is not a RCRA "listed" hazardous waste. However, it should be fully evaluated for hazardous waste characteristics prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

## 14. TRANSPORTATION INFORMATION

### DOT

**Shipping Description:** Not Regulated

**Proper Shipping Name:** Not classified as hazardous

**Note:** Material is unregulated unless shipped by land in a packaging having a capacity of 3500 gallons or more. Then the provisions of 49 CFR, Part 130 apply.

### IMDG

**Shipping Description:** Not regulated

### ICAO/IATA

**Shipping Description:** Not regulated

## 15. REGULATORY INFORMATION

### U.S. Regulations:

#### EPA SARA 311/312 (Title III Hazard Categories)

Acute Health:	No
Chronic Health:	No
Fire Hazard:	No
Pressure Hazard:	No
Reactive Hazard:	No

#### SARA - Section 313 and 40 CFR 372:

This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372:  
--None Known--

#### EPA (CERCLA) Reportable Quantity (in pounds):

--None Known--

#### CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds):

This material contains the following chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372:  
-- None Known --

#### California Proposition 65:

Warning: This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

-- None Known --

#### Carcinogen Identification:

This material has not been identified as a carcinogen by NTP, IARC, or OSHA.

**TSCA:**

All components are listed on the TSCA inventory.

**International Regulations:**

**Canadian Regulations:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**Domestic Substances List:** Listed

**WHMIS Hazard Class:**

Not Regulated

## 16. OTHER INFORMATION

<b>Issue Date:</b>	24-Jan-2006
<b>Previous Issue Date:</b>	07-Sep-2004
<b>Product Code:</b>	5040304
<b>Revised Sections or Basis for Revision:</b>	Product Name / Synonyms (Section 1)
<b>MSDS Code:</b>	776510

**Disclaimer of Expressed and implied Warranties:**

The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

**Section V - Reactivity Data**

Stability	Unstable		Conditions to Avoid
	Stable	X	
Incompatibility (Materials to Avoid)			
Hazardous Decomposition or Byproducts			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

**Section VI - Health Hazard Data**

Route (s) of Entry:	Inhalation? No	Skin? No	Ingestion? No
Health Hazards (Acute and Chronic)			
Carcinogenicity: N/A	NTP? N/A	IARC Monographs? N/A	OSHA Regulated? No
Signs and Symptoms of Exposure:			
Medical Conditions Generally Aggravated by Exposure: None			
Emergency and First Aid Procedures: If material comes in contact with eyes, flush with water.			

**Section VII - Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material is Released or Spilled: Sweep up
Waste Disposal Method: Use any waste disposal method
Precautions to Be taken in Handling and Storing: Dry storage required since spontaneous combustion may be possible due to decomposition action of bacteria if rice hulls are permitted to get wet.
Other Precautions: None

**Section VIII - Control Measures**

Respiratory Protection (Specify Type): Cloth/ Paper Dust Mask		
Ventilation	Local Exhaust:	Special:
	Mechanical (General):	Other:
Protective Gloves: No	Eye Protection: Goggles	
Other Protective Clothing or Equipment: N/A		
Work/Hygienic Practices: N/A		

**ILC RESOURCES**  
**MATERIAL SAFETY DATA SHEET**

**Section 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

ILC RESOURCES  
500 New York Avenue  
Des Moines, IA 50313-4908  
MSDS Information: 1-515-243-8106

24-Hour Emergency Number  
1-515-243-8106

PRODUCT NAME: Unical-UF, Unical-P, Unical-C, UniFlo, Unical-S, Unical-M, Unical-L, Fre-Flo, LOL#3, Unical-F, Shell & Bone Builder, Shell & Bone Builder Blend

COMMON NAME: feeding limestone, calcium carbonate

CHEMICAL NAME: calcium carbonate

CHEMICAL FAMILY: carbonates

CHEMICAL FORMULA: CaCO<sub>3</sub>

CAS #: 471-34-1

MOLECULAR Wt: 100.09

**Section 2 - COMPOSITION & INFORMATION ON INGREDIENTS**

INGREDIENTS	PERCENTAGES	PEL (OSHA)	TLV (ACGIH)
calcium carbonate	(by weight) 90-100%	total dust 15 mg/m <sup>3</sup> TWA respirable dust 5 mg/m <sup>3</sup> TWA	total dust 10 mg/m <sup>3</sup>

**Section 3 - HAZARDS IDENTIFICATIONS**

**\* EMERGENCY OVERVIEW \***

Light gray to tan granular, odorless. Non-flammable. Non-hazardous to eyes, skin and throat.

POTENTIAL HEALTH EFFECTS

ROUTES OF ENTRY: Eye contact, dermal, inhalation, ingestion.

EFFECTS OF OVEREXPOSURE:

Eyes - Nuisance dust may cause mechanical irritation

Skin - Non-hazardous

Inhalation - Excessive concentrations of a nuisance dust may cause reactions such as coughing, sneezing and nasal irritation

Ingestion - Non-hazardous

CHRONIC EFFECTS OF OVEREXPOSURE: None known.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

CARCINOGENICITY:      NTP: No              IARC: No              OSHA: No

#### Section 4 – FIRST AID MEASURES

##### EMERGENCY AND FIRST AID PROCEDURES:

Eye Contact - If material comes in contact with the eyes, promptly wash the eyes with water. Get medical attention if any discomfort continues.

Skin Contact - No special precautions; flush with water.

Inhalation - If a person breathes in large amounts of this material, move the exposed person to fresh air at once. Other measures are usually unnecessary.

Ingestion - No special precautions.

#### Section 5 – FIRE-FIGHTING MEASURES

FLASH POINT: N/A      AUTO IGNITION TEMP: N/A

FLAMMABLE LIMITS IN AIR	<u>LOWER</u>	<u>UPPER</u>
% BY VOLUME	N/A	N/A

EXTINGUISHING MEDIA: Use appropriate media to extinguish source.

SPECIAL FIRE FIGHTING PROCEDURES: N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS: CaCO<sub>3</sub> is neither a fire hazard nor an explosive hazard.

HAZARD RATINGS:    NFPA 704: Health - 1                      Fire - 0                      Reactivity - 0

#### Section 6 – ACCIDENTAL RELEASE MEASURES

Calcium carbonate (limestone) is not classified as a “toxic pollutant” or a “hazardous substance” under Sections 307 and 311 of the Clean Water Act. Accidental spills can be cleaned up by sweeping, vacuuming, or flushing with water.

#### Section 7 – HANDLING & STORAGE

HANDLING AND STORING: Store in a dry area; material is an animal feed ingredient.

#### Section 8 – EXPOSURE CONTROL – PERSONAL PROTECTION

ENGINEERING CONTROLS: Mechanical ventilation may be necessary to maintain dust below exposure levels.

RESPIRATORY EQUIPMENT: An approved NIOSH dust respirator should be used when dust exposure standard is exceeded (nuisance dust 15 mg/m<sup>3</sup>).

EYE PROTECTION: Safety goggles.

PROTECTIVE CLOTHING: Not essential.

OTHER (SAFETY SHOWERS, EYE WASH STATIONS, ETC.): None.

**Section 9 – PHYSICAL & CHEMICAL PROPERTIES**

APPEARANCE: Light gray to tan color.  
Coarse to small granules to powder

ODOR: Odorless

BOILING POINT: Not determined

SPECIFIC GRAVITY (water=1): 2.7–2.9

VAPOR PRESSURE: N/A VAPOR DENSITY (air=1): N/A

SOLUBLE IN WATER: Negligible

EVAPORATION RATE (ether=1): None

pH: 8.5–9.5 at 10% solids

**Section 10 – STABILITY & REACTIVITY**

STABILITY: STABLE   
UNSTABLE

INCOMPATIBILITY: Material is soluble in acid with concomitant release of carbon dioxide

HAZARDOUS DECOMPOSITION PRODUCTS: Heating of product above 825°C will decompose to calcium oxide with release of carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: High temperatures above 825 °C

MATERIALS TO AVOID: Acids

**Section 11 – TOXICOLOGY INFORMATION**

Note: ILC Resources has not conducted specific toxicity tests on this product.

**Section 12 – ECOLOGICAL INFORMATION**

Note: ILC Resources has not conducted specific ecological tests on this product. The product is also used as an animal feed ingredient and agricultural liming material.

**Section 13 – DISPOSAL CONSIDERATION**

WASTE DISPOSAL PROCEDURES: Calcium carbonate (limestone) is not classified as a hazardous waste under RCRA Section 3001. Use normal waste disposal procedures that are in compliance with federal, state, and local regulations.

**Section 14 – REGULATORY INFORMATION**

DOT PROPER SHIPPING NAME: Not regulated by DOT DOT HAZARD CLASS: N/A

DOT IDENTIFICATION NUMBER: N/A

DOT EMER. RESPONSE GUIDE NO.: N/A

**Section 15 – OTHER INFORMATION**

This product does not contain toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

SARA SECTION 311-312 HAZARD CATEGORIES (40 CFR 370.2):

FIRE: No      SUDDEN RELEASE OF PRESSURE: No      REACTIVE: No      ACUTE: No  
CHRONIC: No

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE, BUT ILC RESOURCES DOES NOT WARRANT, EXPRESS OR IMPLY, THE FITNESS OF CONTENTS HEREOF FOR EITHER GENERAL OR PARTICULAR PURPOSES. IN NO EVENT SHALL ILC RESOURCES BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES NOR SHALL ANYONE HAVE A RIGHT OR REMEDY BASED ON OR RELATED TO POSSESSION AND/OR USE OF THIS DATA SHEET.

**Effective: 3-17-06**

Supersedes: 01-24-05

Material Safety Data Sheet  
 May be used to comply with  
 OSHA's Hazard Communication Standard,  
 29 CFR 1910.1200. Standard must be  
 consulted for specific requirements.



IDENTITY (As Listed on Label and List)  
**Ground Rice Hulls**

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

**Section I**

Manufacturer's Name <b>RICELAND FOODS, INC.</b>	Emergency Telephone Number <b>(870) 673-5500</b>
Address (Number, Street, City, State, and ZIP Code) <b>2120 South Park Ave.</b>	Telephone Number for Information <b>(870) 673-5313</b>
<b>P.O. Box 927</b>	Date Prepared <b>03-08-2007</b>
<b>Stuttgart, AR 72160</b>	Signature of Preparer (optional)

**Section II - Hazard Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity; Common name (s) <b>None</b> )	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (Optional)
NFPA Classification				
<b>Health (Blue) 1</b>				
<b>Flammability (Red) 1</b>				
<b>Reactivity (Yellow) 0</b>				

**Section III - Physical/Chemical Characteristics**

Boiling Point	N/A	Specific Gravity (H <sub>2</sub> O = 1)	.11
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			
Appearance and Odor: <b>Tan in color; slight dusty odor.</b>			

**Section IV - Fire and Explosion Hazard Data**

Flash Point (Method Used) <b>Not Determinable</b>	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media: <b>Water/ Foam/ CO<sub>2</sub></b>			
Special Fire Fighting Procedures: <b>Standard</b>			
Unusual Fire and Explosion Hazards: <b>See Section VII</b>			

(Reproduce locally)

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