LCF 1/2

Section 1: Identification of the substance/mixture and company/undertaking

Product information

Product identifier	LCF 1/2
General use	Drilling Fluid Additive
Product description	An organic agricultural by-product blended and combined by proprietary formulation
Company profile	ICT Oilfield Products 1861 FM 54 Littlefield TX 79339 806-385-1015 www.ictoilfieldproducts.com Emergency Telephone 806-385-1015

Section 2: Hazards identification

Classification of the substance or mixture
This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200

Emergency Overview

Warning

Form: Solid **Physical state:** Solid **Color:** Brown **Odor:** Mild Earthy

OSHA Hazards Combustible dust

Classification **Combustible Dust**

Labeling

Signal Word **Warning**

Hazard Statements **May form combustible dust concentrations in air**

Potential Health Effects

Physical Hazards Mechanical processing may form combustible dust concentrations in air and thermal processing at elevated temperatures may generate simple hydrocarbons and carbon oxides

Carcinogenicity:

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as anticipated carcinogen by NTP

ACGIH No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by ACGIH

Section 3: Composition/information on ingredients

Synonyms	None Established
Molecular formula	UVCB

Component	CAS-No.	Weight %
Cotton Woody Byproduct Organic Natural Fiber		100%

Section 4: First aid measures

General advise	No hazards which require first aid measures.
If inhaled	If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician**.**
In case of skin contact	Wash off with soap and water.
In case of eye contact	Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist
If swallowed	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Section 5: Firefighting measures

Flash point	No data available
Auto ignition	No data available
Specific hazards during fire fighting	Risks of ignition followed by flame propagation or secondary explosions can be caused by the accumulation of dust, e.g. on floors and ledges.
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	Standard procedures for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Fire and explosion protection	Avoid generating dust: fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Provide appropriate ventilation at places where dust is formed.
Hazardous decomposition products	No data available,

Section 6: Accidental release measures

Personal precautions	Avoid dust formation
Methods for cleaning up	Pick-up and arrange disposal without creating dust. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.
Additional advice	Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e. cleaning dust surfaces with compressed air).

Section 7: Handling and storage

Handling

Advise on safe handling	For personal protection see Section 8. Smoking, eating and drinking should be prohibited in the application area. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient.
Advise on protection against fire and explosion	Avoid generating dust, fine dust dispersed in the air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Provide appropriate exhaust ventilation at places where dust is formed.

Storage

Requirements for storage areas and containers	Electrical installations / working materials must comply with the technological safety standards.
Advise on common storage	No materials to be especially mentioned,

Section 8: Exposure controls/personal protection

Engineering measures

Consider the potential hazards of this material (see Section 2), 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 since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection	Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19, 5% by volume under normal atmospheric pressure. Wear NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Dusts and Mists/P100. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not be provide adequate protection.
Hand protection	The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time, Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	Eye wash bottle with pure water, Safety glasses.
Skin and body protection	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate: Protective suit Safety shoes.
Hygiene measures	General industrial hygiene practice.

Section 9: Physical and chemical properties

Appearance

Form	Solid
Physical state	Solid
Color	Light Brown
Odor	Mild earthy
Odor Threshold	No data available

Safety data

Flash point	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Oxidizing properties	No
Autoignition temperature	No data available
Molecular formula	UVCB

Molecular weight	Not applicable
pH	Not applicable
Freezing point	Not applicable
Pour point	No data available
Boiling point/boiling range	Not applicable
Vapor pressure	Not applicable
Relative density	1.1
Water solubility	Insoluble
Partition coefficient: n-octanol/water	No data available
Viscosity, kinematic	Not applicable
Relative vapor density	Not applicable
Evaporation rate	No data available

Section 10: Stability and reactivity

Chemical stability	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of hazardous reactions

Conditions to avoid	Generation of dusts, excessive heat, and ignition sources
Hazardous decomposition	No data available
Other Data	No decomposition if stored and applied as directed

Section 11: Toxicological information

Acute oral toxicity	LD50 not known
Acute inhalation toxicity	LC50 not known
Acute dermal toxicity	LD50 not known
Skin irritation	No skin irritation
Eye irritation	No eye irritation
Aspiration toxicity	No aspiration toxicity classification

Further Information	No data available

.

Section 12: Ecological information

Elimination information (persistence and degradability)

Biodegradability	No data available

Ecotoxicology Assessment

Additional ecological information	This material is not expected to be harmful to aquatic organisms**.**

Section 13: Disposal considerations

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if 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.

Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14: 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 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 material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (United States Department of Transportation)	NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORATION BY THIS AGENCY
IMO/IMG (International Maritime Dangerous Goods)	NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORATION BY THIS AGENCY
IATA (INTERNATIONAL MARITIME DANGEROUS GOODS)	NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORATION BY THIS AGENCY
ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))	NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORATION BY THIS AGENCY

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS (EUROPE))	NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORATION BY THIS AGENCY
ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)	NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORATION BY THIS AGENCY

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

SARA 311/312 Hazards	Fire Hazard
CERCLA Reportable Quantity	This material does not contain any components with a CERCLA RQ.
SARA 302 Reportable Quantity	This material does not contain any components with a SARA 302 RQ
SARA 302 Threshold Planning Quantity	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 304 Reportable Quantity	This material does not contain any components with a section 304 EHS RQ.
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 I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. 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 the U.S. Clean Air Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F)

This product does not contain any chemicals listed under the U.S. Clean Air Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489)

US State Regulations

Pennsylvania Right To Know	No components are subject to the Pennsylvania Right to Know Act.
New Jersey Right To Know	No components are subject to the New Jersey Right to Know Act.
California Prop. 65 Ingredients	This product does not contain any chemicals known to the

State of California to cause cancer, birth, or any other reproductive defects,

Section 16: Other information

Reason for Issue: Revised Changes
Previous Date: 01/01/2016
Revised Date: 02/15/2017

This version replaces all previous versions

The Information in this SDS pertains only to the product as shipped.

The information in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information elates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.