



Safety Data Sheet

Levesol™ DFC

SDS DATE: 10/23/2015

Section 1: Product and Company Identification

Product Name: Levesol™ DFC 2-0-0

Distributor: West Central Distribution, LLC.
Address: 2700 Trott Ave. SW / P.O. Box 897 / Willmar, MN, 56201
Phone: (320) 235-8518

Emergency CHEMTREC Phone: US: 1-800-424-9300 International: 1-202-483-7616

Chemical Description: Proprietary Blend of Nitrogen and Chelate

Product Use: Fertilizer Additive

Section 1 Notes: None

Section 2: Hazards Identification

Physical Hazards: Not classified
Health Hazards: Not classified
OSHA Defined Hazards: Not Classified

Label Elements:

Hazard Symbol: None

Signal Word: None

Hazard Statement: None

Precautionary Statements: P102 Keep out of reach of children.
P102 Read label before use.
P233 Keep container tightly closed.
P234 Keep only in original container.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P281 Use personal protective equipment as required.
P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do then continue rinsing cautiously.

Section 2 Notes: None

Section 3: Hazard Ingredients

Chemical Name	CAS number	%
Water	7732-18-5	50 - 70
*Proprietary	*Proprietary	10 - 30
Urea	57-13-6	1 - 5

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

CARCINOGENICITY

OSHA: No **ACGIH:** No **NTP:** No **IARC:** No **OTHER:** No

Section 3 Notes: Product does NOT contain any pesticides or pest control agents.



Safety Data Sheet

Levesol™ DFC

SDS DATE: 10/23/2015

Section 4: First Aid Measures

EYE CONTACT: IF IN EYES: Check for and remove contact lenses. Flush immediately with copious amounts of water or normal saline (minimum of 15 minutes), holding eyelids apart to ensure complete irrigation of the eye and eyelid tissue. Take exposed individual to a healthcare professional, preferably an ophthalmologist, for further evaluation.

SKIN CONTACT: IF ON SKIN OR CLOTHING: Remove contaminated clothing, shoes, and equipment. Wash exposed area with plenty of soap and water. Repeat washing. If redness or irritation occurs, seek medical attention. Wash contaminated clothing before reuse.

INGESTION: IF SWALLOWED: Rinse Mouth thoroughly. Drink 1 or 2 glasses of water. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so stomach content does not get into the lungs. Get medical attention.

INHALATION: IF INHALED: No adverse effects anticipated. If necessary, remove victim to fresh air and loosen clothing. Get medical attention.

Most Important Symptoms/Effects, Acute and Delayed: Prolonged or repeated skin contact may cause irritation.

Indication of Immediate Medical Attention and Special Treatment Needed: Treat symptomatically

General Information: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section 4 Notes: None

Section 5: Fire Fighting Measures

Suitable Extinguishing Media: Water fog. Water spray. Carbon Dioxide (CO₂). Foam.

Unsuitable Extinguishing Media: Do not use a water jet as an extinguisher, as this will spread the fire.

Specific Hazards Arising from the Chemical: The product is not flammable. During fire, gases hazardous to health may be formed.

Special Protective Equipment and Precautions for Firefighters: Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Follow the general fire precautions indicated in the workplace.

Fire-fighting Equipment/Instructions: Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from the fire area if you can do so without risk. In the event of a fire, cool tanks with water spray.

Specific Methods: Use water spray to cool unopened containers.

Section 5 Notes: None



Safety Data Sheet

Levesol™ DFC

SDS DATE: 10/23/2015

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures: Avoid inhalation of vapors and spray mist and contact with skin and eyes. Wear suitable protective clothing. For personal protection see Section 8 of the SDS.

Methods and Materials for Containment and Cleaning Up: Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with vermiculite, dry sand, or earth and place into containers. After removal flush contaminated area thoroughly with water.
Small Spills: wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Never return spills to original containers for re-use.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter drains, sewers, or watercourses.

Section 6 Notes: None

Section 7: Handling and Storage

Precautions for Safe Handling: Avoid inhalation of vapors/spray and contact with skin and eyes. Use only with adequate ventilation. Observe good industrial hygiene practices.

Conditions for Safe Storage, Including Any Incompatibilities: Keep container tightly closed. Store in a cool, dry well-ventilated place. Store away from incompatible materials.

Section 7 Notes: None

Section 8: Exposure Controls/Personal Protection

Occupational Exposure Limits

Biological Limit Values: No biological exposure limits noted for the ingredient(s).

Exposure Guidelines: Follow standard monitoring procedures.

Appropriate Engineering Controls: Provide adequate general and local exhaust ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors and mists.

Individual protection measures such as personal protective equipment

Eye/Face Protection: Wear approved safety glasses or goggles.

Skin Protection:

Hand Protection: Chemical resistant gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

Other: Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear air supplied respiratory protection if exposure concentrations are unknown. In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134 and ANSI Z88.2.

Safety Data Sheet

Levesol™ DFC

SDS DATE: 10/23/2015

Thermal Hazards:	Wear appropriate thermal protective clothing, when necessary.
General Hygiene Consideration	Always observe good personal hygiene measures, such as washing after handling material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Handle in accordance with good industrial hygiene and safety practice.
Section 8 Notes	None

Section 9: Physical and Chemical Properties

Appearance:	
Physical State:	Liquid
Form:	Liquid
Color:	Amber
Odor:	Slight
Odor Threshold:	Not available
pH:	~ 7 (10 g/l in water)
Melting point:	Not available
Boiling Point:	> 100 C
Flash Point:	> 100 C
Solid/Gas Flammability:	Not Flammable
Explosive properties:	Not Available
Oxidizing Properties:	Not Available
Vapor Pressure:	Not Available
Specific Gravity:	~ 1.13
Solubility in Water:	Soluble
Lipid solubility:	Not Available
Partition Coefficient: (n-octanol/water)	Not Available
Vapor Density:	Not Available
Other Information:	Not Available

Section 10: Stability and Reactivity

STABILITY: Stable Unstable

Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Conditions to Avoid:	Heat. Extreme temperatures. Contact with incompatible materials.
Incompatible Materials:	Strong oxidizers.
Hazardous Decomposition Products:	Nitrogen oxides (NO _x).

Section 11: Toxicological Information

Information on Likely Routes of Exposure:

Ingestion:	May cause discomfort if swallowed.
Inhalation:	In high concentrations, vapors may be irritating to the respiratory system.
Skin Contact:	Prolonged or repeated skin contact may cause irritation.
Eye Contact:	May cause eye irritation on direct contact.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:	Direct contact with the eyes may cause temporary irritation.
---	--

Safety Data Sheet

Levesol™ DFC

SDS DATE: 10/23/2015

Acute Toxicity: May cause discomfort if swallowed.

Components	Species	Test Results
Urea (CAS 57-13-6) Acute Oral LD50	Rat	14300 mg/kg

Skin Corrosion/Irritation: Prolonged exposure may cause skin irritation.

Serious Eye Damage/Eye Irritation: May cause eye irritation on direct contact.

Respiratory Sensitization: Based on available data, the classification criteria are not met.

Skin Sensitization: Not a skin sensitizer.

Germ Cell Mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: this product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA

Reproductive Toxicity: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity Single Exposure: In high concentrations, vapors may be irritating to the respiratory system.

Specific Target Organ Toxicity Repeated Exposure: Based on available data, the classification criteria are not met.

Aspiration Hazard: Based on available data, the classification criteria are not met.

Chronic Effects: Prolonged exposure may cause chronic effects.

Further Information: no other specific acute or chronic health impact noted.

Section 11 Notes: None

Section 12: Ecological Information

Ecotoxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Urea (CAS 57-13-6) Aquatic LC 50 (Fish)	<i>Leuciscus idus</i>	> 6810 mg/l, 96 hours

Persistence and Degradability: No data available for this product.

Bioaccumulative potential: No data available for this product.

Mobility in Soil: This product is water soluble and may disperse in soil.

Other Adverse Effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 12 Notes: None



Safety Data Sheet

Levesol™ DFC

SDS DATE: 10/23/2015

Section 13: Disposal Considerations

Disposal instructions: Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

Hazardous Waste Code: The waste code should be assigned in discussion between the user, the producer, and the waste disposal company.

Waste from Residues/Unused Products: Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and materials characteristics at the time of disposal.

Contaminated Packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 13 Notes: None

Section 14 Transport Information

DOT: Not regulated as a hazardous material by DOT

IATA: Not regulated as a dangerous good.

IMDG: Not regulated as a dangerous good.

Transport in Bulk According to Annex II of MARPOL 73/78 and The IBC Code: Not Applicable

Section 14 Notes: None

Section 15: Regulatory Information

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): Mixture not Listed

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Not regulated

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): Not regulated

311/312 HAZARD CATEGORIES: None

313 REPORTABLE INGREDIENTS: None

International Regulations: None

Section 15 Notes: None



Safety Data Sheet

Levesol™ DFC

SDS DATE: 10/23/2015

Section 16 Other Information

Disclaimer:

The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet (SDS) and was prepared pursuant to Government regulation(s) that identify specific types of information to be provided. This SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. Additional information may be needed to evaluate other uses of the product, including use of the product in combination with any materials or in any processes other than those specifically referenced. Information provided herein with respect to any hazards that may be associated with the product is not meant to suggest that use of the product in a given application will necessarily result in any exposure or risk to workers or the general public. No responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product. Purchasers and users assume all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Purchasers and users of the product specifically should advise all of their employees, agents, contractors and customers who will use the product of this SDS.