



DYADIC INTERNATIONAL (USA), INC.  
 140 INTRACOASTAL POINTE DRIVE, SUITE 404  
 JUPITER, FLORIDA 33477  
 (561) 743-8333 tel.  
 (561) 743-8343 fax  
<http://www.dyadic.com>

**Section 1. – IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY**

**For Product Information: Dyadic International (USA), Inc. (561) 743-8333**  
**For Emergencies: CHEMTREC (800)424-9300 US, (703) 527-3887 (collect) International**

Product Name: ROCKSOFT™ NCE 3000  
 Product Code: #161  
 Use: Processing Aid

<u>Chemical</u>	<u>CAS#</u>	<u>Hazard (Y/N)</u>	<u>Concentration %</u>
Cellulase	9012-54-8	Y	51
Water/Inerts	Confidential	N	Remainder

**Section 2. – COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Family: Cellulase  
 Chemical Family Name: Carbohydrase Enzyme  
 Formula: Proprietary  
 Hazard Classification: Xn (Harmful). Irritant. Sensitizing.  
 Exposure Limit: None  
 R Number/S Number: R42/S23  
 CAS Number: 9012-54-8  
 CAS Name: Cellulase  
 EINECS/ELINCS Number: 232-734-4  
 IUB Number: 3.2.1.4

**Section 3. – HAZARDS IDENTIFICATION**

Hazards Description: Repeated inhalation of enzyme liquid may cause sensitization and may cause allergic type reaction in sensitized individuals. Prolonged skin contact may cause irritation.

**ACUTE HEALTH EFFECTS OF OVEREXPOSURE:**

Swallowing: Ingestion of this material is not known to result in significant adverse health effects.  
 Skin Absorption: Not applicable.  
 Inhalation: Mist or spray may cause allergic skin reactions in susceptible individuals. Avoid breathing fumes.  
 Skin Contact: This material is not known to be a skin irritant, but it is recommended that prolonged contact with the skin be avoided.  
 Eye Contact: May cause irritation.  
 Chronic Overexposure: Repeated inhalation can result in sensitization and allergic response in hypersensitive individuals.

Other Health Hazards: In the case where overexposure may exist, the use of NIOSH-MSHA dust and mist respirator may be advised.

#### Section 4 – FIRST AID MEASURES

---

Swallowing: Give large quantities of water. If unconscious or in convulsion, take immediately to hospital or physician.  
Inhalation: Remove from contaminated area to fresh air. Seek medical attention if allergic response exhibited.  
Skin Contact: Wash skin with soap and water. Remove contaminated clothes and wash.  
Eye Contact: Flush eyes with low pressure water for at least 15 minutes. Do not attempt to neutralize chemically. Seek medical attention immediately if irritation persists.

#### Section 5 – FIRE FIGHTING MEASURES

---

Flash Point: Not applicable  
Flammability limits (vol/vol%): Lower: No data Upper : No data  
Extinguishing Media: Carbon dioxide, foam and/or ABC dry powder.  
Non-suitable Media: None  
Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA –approved self-contained breathing apparatus and full protective clothing. Cool containers exposed to fire with water.  
Unusual Fire and Explosion Hazards: None known.  
Hazardous Decomposition Materials  
Under Fire Conditions: Oxides of carbon, oxides of nitrogen

#### Section 6 – ACCIDENTAL RELEASE MEASURES

---

##### **SPIILLED MATERIAL SHOULD BE REMOVED IMMEDIATELY TO AVOID THE FORMATION OF AEROSOLS.**

Personal Precautions: See Personal Protection information in Section 8  
Method: Removal by mechanical means (i.e. vacuuming with HEPA filters) is preferred. Solid may be placed into approved containers for disposal. Dilute remainder with plenty of water avoiding the formation of aerosols and flush to an approved drain. Provide sufficient ventilation and wash or dispose of contaminated clothing.  
Disposal: Contaminated material is to be disposed of in accordance with State, local and Federal Regulations. Compliance includes, but it not restricted to, the Clean Water Act, the Clean Air Act and the Resource Conservation and Recovery Act.

#### Section 7 – HANDLING AND STORAGE

---

Maximum Storage Temperatures: None  
Handling And Storage: Keep from freezing. Protect against physical damage. Store in a cool, dry area in closed containers. Segregate from acids, peroxides and all combustible organic or easily oxidizable materials. Keep away from heat and flame. Avoid accidental discharge into sewers and natural waters. Empty container retains vapor and product residue. Observe all labeled safeguards until cleaned, reconditioned or destroyed.

Date Created: March 27, 2007

Revision Level: NONE

Product: ROCKSOFT™ NCE 3000

## Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

---

Ventilation:	Efficient exhaust ventilation should always be provided to draw fumes and vapors away from workers to prevent routine inhalation. Ventilation should be adequate to maintain the ambient workplace atmosphere below the TLV of any items identified under the hazardous components section.
Respiratory Protection:	Normal. Wear a NIOSH/MSHA approved respirator whenever exposure to fumes or vapors exceeds the TLV of any items identified under hazardous components section. (EN 143)
Protective Gloves:	Impervious gloves, such as Neoprene or polyvinyl alcohol, should be worn when handling chemicals. (EN 374)
Eye Protection:	Goggles/Safety Glasses/Mono-goggles. (EN 166)
Other Protective Equipment:	Long Sleeve shirt/Rubber apron/Safety shoes.

## Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

---

Physical State:	Solid
Appearance & Odor:	Tan to cream powder, slight fermentation odor
Density:	DNA
Boiling Point:	DNA
Pour Point:	Not Recorded
Water Solubility:	Completely miscible
Vapor Pressure:	DNA
Vapor Density:	DNA
Evaporation Rate:	DNA
Water = 1	
pH:	4.5 ± 1.0
TLV(ppm):	DNA
Explosive Properties:	None

## Section 10 – STABILITY AND REACTIVITY

---

Stability:	Stable
Incompatibility (materials to avoid):	None
Hazardous Combustion or Decomposition Products:	None
Hazardous Polymerization:	Does not occur.
Conditions to Avoid:	None known

## Section 11 – TOXICOLOGICAL INFORMATION

---

Acute Eye Irritation:	No data available.
Acute Skin Irritation:	No data available.
Acute Dermal Toxicity:	No data available.
Acute Respiratory Irritation:	No data available.

**Date Created: March 27, 2007**

**Revision Level: NONE**

**Product: ROCKSOFT™ NCE 3000**

Acute Inhalation Toxicity: No data available.  
Acute Oral Toxicity: No data available.  
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. No additional test data found for product.

---

## Section 12 – ECOLOGICAL INFORMATION

Ecotoxicological Information: No data available.  
Mobility: No data available.  
Degradability: No data available.  
Bioaccumulation: No data available.

---

## Section 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical additions, processing or otherwise altering this material may make 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: Rinse containers before disposal.

---

## Section 14 – TRANSPORTATION

DOT ID Number: None assigned  
DOT Hazard Class: None assigned  
DOT Shipping Name: None assigned  
DOT Precautionary Label: None required  
Packing Group: None assigned  
Emergency Guide Number: Not regulated  
IMO/IATA ID Number: None assigned  
IMO/IATA Hazard Class: None assigned  
IMO Shipping Name: None assigned  
IATA Shipping Name: None assigned  
IMO/IATA Precautionary  
Label: None required  
IMO/IATA Packing Group: None assigned  
Marine Pollutant: No

---

## Section 15 – REGULATORY INFORMATION

Harmful. Repeated inhalation of enzyme aerosol may cause sensitization and will cause allergic type reactions in sensitized individuals. Prolonged skin contact may cause irritation. Do not breathe spray.

**Date Created: March 27, 2007**

**Revision Level: NONE**

**Product: ROCKSOFT™ NCE 3000**



Labeling: Xn

OSHA permissible exposure limits:	None established
TWA:	None established
STEL:	None established

## Section 16 – OTHER INFORMATION

---

National Paint and Coatings Hazardous Materials Identification System (“HMIS”) Hazard Ratings:

Health:	1
Flammability:	0
Reactivity:	0
Personal Protection:	B

Disclaimer: The information and recommendations in this data sheet are believed to be correct and reliable. However, the data offered for consideration and verification by the user and Dyadic International, Inc. offers no guarantee, warranty or representation as to the accuracy or completeness of the data.