

*** MATERIAL SAFETY DATA SHEET ***

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBERS.....16866

PRODUCT NAME.....XtraCal Plus in 53 gram/45 mL portion control packets.

Medtrition/National Nutrition, Inc.

P.O. Box 5383

Lancaster PA 17606-5383

USA

Emergency Telephone:

1-717-569-8561 Toll Free 1-877-271-3570

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL FAMILYProtein

NON HAZARDOUS

3. HAZARDS IDENTIFICATION

EYE.....Liquid may cause irritation.

SKIN CONTACTLow order of toxicity.

INHALATIONNo hazard in normal industrial use.

INGESTIONNo hazard in normal industrial use.

*** MATERIAL SAFETY DATA SHEET ***

4. FIRST-AID MEASURES

EYE.....Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.
SKIN CONTACTWash with soap and water.
INHALATIONRemove to fresh air.
INGESTIONNot applicable.

5. FIRE FIGHTING MEASURES

AUTO IGNITION.....See Fire & Explosion Hazards
FLASH POINTNot Applicable
EXTINGUISHING MEDIA.....Dry chemical; CO₂; Water fog; Foam
SPECIAL FIRE FIGHTING PROCEDURENo special procedures are required
FIRE & EXPLOSION HAZARDS.....Minimum ignition temperature of dust cloud- approx. 390 C. Minimum explosive concentration- approx. 62 mg/l. Minimum energy to ignite cloud by electrical spark- approx. 0.045 joules.
HAZARDOUS COMBUSTION PROD.....This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and water.
UPPER EXPLOSION LIMIT (%)Not Applicable
LOWER EXPLOSION LIMIT (%).....Not Applicable
NFPA FLAMMABILITY HAZARD CLASS.....1 = Slight

*** MATERIAL SAFETY DATA SHEET ***

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURESSpills should be taken up with suitable absorbent and placed in containers. Spill area can be washed with water; collect wash water for approved disposal. Do not flush to storm sewer or waterway.

For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

7. HANDLING AND STORAGE

STORAGE TEMPERATUREAmbient.
HANDLING/STORAGEDo not freeze.
VENTILATION REQUIREMENTSGeneral
SENSITIVITY TO STATIC ELECTRICITY.....Yes
SENSITIVITY TO MECHANICAL IMPACT.....No

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION REQUIREMENTSGeneral
EYE PROTECTION REQUIREMENTSSafety glasses are optional
GLOVE REQUIREMENTSNot applicable
CLOTHING REQUIREMENTSNot applicable
WASH REQUIREMENTSWash with soap and water
RESPIRATION REQUIREMENTS.....NIOSH approved dust mask.

9. PHYSICAL AND CHEMICAL PROPERTIES

PURE SUBSTANCE OR MIXTUREMixture
PHYSICAL FORM.....Gelatin
APPEARANCE/ODOR.....Tan, consistency of applesauce with slight vanilla flavor.
ODOR THRESHOLD.....Not available

MOLECULAR WEIGHT	>10000
PH AS IS.....	Not Applicable
PH IN (1%) SOLUTION.....	Approx. 6
BOILING POINT.....	Not Applicable
MELTING/FREEZING POINT.....	Not Applicable
SOLUBILITY IN WATER.....	Soluble
PARTITION COEFFICIENT	
(n-octanol/water).....	Not Applicable
SPECIFIC GRAVITY (WATER=1).....	1.900
EVAPORATION RATE.....	Not Applicable
VAPOR PRESSURE (mmHg).....	Not Applicable
VAPOR DENSITY (air = 1).....	Not Applicable
VOLATILES.....	None
VOLATILE ORGANIC COMPOUNDS.....	Not Applicable
AUTO IGNITION.....	See Fire & Explosion Hazards
FLASH POINT	Not Applicable
OXIDIZING PROPERTIES	Not Applicable

10. STABILITY AND REACTIVITY

STABILITY	Stable
MATERIALS TO AVOID.....	None
NFPA REACTIVITY HAZARD CLASS	0 = Insignificant
HAZARDOUS DECOMPOSITION PRODUCTS	This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and water.

*** MATERIAL SAFETY DATA SHEET ***

11. TOXICOLOGICAL INFORMATION

CHRONIC (LONG TERM) EFFECTS OF EXPOSURE

ROUTE OF ENTRY.....Eye contact; Skin contact; inhalation;
Ingestion
EFFECTS OF CHRONIC EXPOSURE.....None
TARGET ORGANS.....Not Applicable
SPECIAL HEALTH EFFECTS.....None known

12. ECOLOGICAL INFORMATION

Not available

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS.....Waste disposal should be in accordance
with existing federal, state and local
environmental regulations.
EMPTY CONTAINER WARNINGS.....Empty containers may contain product
residue; follow MSDS and label warnings
even after they have been emptied.

14. TRANSPORTATION INFORMATION

DOT INFORMATION.....Not Applicable

***** MATERIAL SAFETY DATA SHEET *****

15. REGULATORY INFORMATION

TSCAOn TSCA Inventory
FDA.....21CFR172.892
SARA/TITLE III.....This product contains no substances at or above the reporting threshold under Section 313, based on data available.

The information given and the recommendations made herein apply to our product (s) alone and are not combined with other product (s). such are based on our research and on data from other reliable sources an are believed to be accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.

16. OTHER INFORMATION

MSDA DATEOctober 29, 2012
CHANGES SINCE PREVIOUS ISSUE.....name and contact information

FOR REGULATORY INFORMATION, CONTACT:

Amanda Trainor
Quality Control Manager
Medtrition/National Nutrition, Inc.
P.O. Box 5383
Lancaster PA 17606-5383 USA
Telephone: 1-717-569-8561