

# NU-CHEK-PREP, INC.

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*The Home of Fine Lipid Organics*

## **SAFETY DATA SHEET**

VERSION: 2

REVISION DATE: 08-25-17

### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT SCIENTIFIC NAME:	9-HEXADECENOIC ACID
PRODUCT COMMON NAME:	PALMITOLEIC ACID
PRODUCT NUMBER:	U-40-A
CAS NUMBER:	373-49-9
PURITY:	>99%
PRODUCT USE:	-FOR RESEARCH AND LABORATORY USE ONLY -NOT INTENDED FOR HUMAN CONSUMPTION -NOT INTENDED FOR MEDICINAL OR DRUG RELATED USES

### **COMPANY INFORMATION**

NU-CHEK-PREP, INC.

109 WEST MAIN STREET

ELYSIAN, MN 56028

PHONE: 507-267-4582

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**24 HOUR EMERGENCY CONTACT:** CHEMTREC

UNITED STATES: 800-424-9300

INTERNATIONAL: 703-527-3887

### **SECTION 2: HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW

GHS CLASSIFICATION: NON HAZARDOUS SUBSTANCE

### **SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS**

PRODUCT SCIENTIFIC NAME:	9-HEXADECENOIC ACID
PRODUCT COMMON NAME:	PALMITOLEIC ACID
FORMULA:	C16H30O2
M.W.:	254.40
CAS #:	373-49-9

### **SECTION 4: FIRST AID MEASURES**

<b>IF INHALED:</b>	MOVE PERSON TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CALL A PHYSICIAN.
<b>SKIN:</b>	WASH WITH SOAP AND WATER. CONSULT A PHYSICIAN
<b>EYES:</b>	FLUSH WITH WATER FOR 15 MINUTES AND CONSULT A PHYSICIAN
<b>INGESTION:</b>	DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER AND CONSULT A PHYSICIAN

### **SECTION 5: FIREFIGHTING MEASURES**

**SUITABLE EXTINGUISHING MEDIA:** USE WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE OR ALCOHOL RESISTANT FOAM

**SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:** WEAR BREATHING APPARATUS IF NECESSARY

**SPECIFIC HAZARDS FROM PRODUCT:** NO DATA AVAILABLE

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS:** USE PERSONAL PROTECTIVE EQUIPMENT, AVOID BREATHING VAPORS, AND IF CONTACT WITH SKIN, WASH IMMEDIATELY

**ENVIRONMENTAL PRECAUTIONS:** DO NOT LET PRODUCT ENTER DRAINS

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** CONTAIN SPILLAGE AND CONTAIN IN A SUITABLE CONTAINER FOR DISPOSAL

## **SECTION 7: HANDLING AND STORAGE**

**PRECAUTIONS FOR SAFE HANDLING:** AVOID INHALATION OR CONTACT WITH SKIN AND EYES.

**CONDITIONS FOR SAFE STORAGE:** KEEP CONTAINER CLOSED IN A DRY AND VENTILATED AREA.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**PERSONAL PROTECTIVE EQUIPMENT:** RESPIRATORY PROTECTION: RESPIRATORY PROTECTION IS NOT REQUIRED. USE PROTECTIVE MASKS IF RISK ASSESMENT SHOWS THEY ARE NEEDED. USE THEM UNDER TYPE EN 14387. IF RESPIRATORS ARE NEEDED, USE TESTED AND APPROVED EQUIPMENT UNDER GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR EN (EU).

**HAND PROTECTION:** HANDLE WITH RECOMMENDED PROTECTIVE GLOVES IF NEEDED. AFTER REMOVAL, WASH AND DRY HANDS, AND DISPOSE OF GLOVES.

**EYE PROTECTION:** WEAR PROTECTIVE GLASSES AT ALL TIMES. GLASSES WITH SIDE PROTECTION ARE RECOMMENDED.

**SKIN PROTECTION:** WHERE APPROPRIATE PROTECTIVE CLOTHING. WEAR ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE:</b>	CLEAR LIQUID AT ROOM TEMPERATURE
<b>Ph:</b>	NO DATA AVAILABLE
<b>MELTING POINT:</b>	NO DATA AVAILABLE
<b>BOILING POINT:</b>	NO DATA AVAILABLE
<b>FLASH POINT:</b>	NO DATA AVAILABLE
<b>IGNITION TEMP:</b>	NO DATA AVAILABLE
<b>AUTO IGNITION TEMP:</b>	NO DATA AVAILABLE
<b>UPPER/LOWER EXPLOSION LIMIT:</b>	NO DATA AVAILABLE
<b>VAPOUR PRESSURE AND DENSITY:</b>	NO DATA AVAILABLE
<b>WATER SOLUBILITY:</b>	INSOLUBLE
<b>ODOR:</b>	NO DATA AVAILABLE
<b>PARTITION COEFFICIENT:</b>	NO DATA AVAILABLE
<b>EVAPORATION RATE:</b>	NO DATA AVAILABLE
<b>DENSITY:</b>	0.895 G/ML

## **SECTION 10: STABILITY AND REACTIVITY**

**REACTIVITY:** STABLE UNDER RECOMMENDED STORAGE CONDITIONS

**CHEMICAL STABILITY:** STABLE UNDER RECOMMENDED STORAGE CONDITIONS

**POSSIBILITY OF HAZARDOUS REACTION:** NO DATA AVAILABLE

**CONDITIONS TO AVOID:** NO DATA AVAILABLE

**HAZARDOUS DECOMPOSITION PRODUCTS:** NO DATA AVAILABLE

## **SECTION 11: TOXICOLOGICAL INFORMATION**

<b>ACUTE TOXICITY:</b>	NO DATA AVAILABLE
<b>SKIN CORROSION/IRRITATION:</b>	NO DATA AVAILABLE
<b>SERIOUS EYE DAMAGE/EYE IRRITATION:</b>	NO DATA AVAILABLE
<b>RESPIRATORY OR SKIN SENSATION:</b>	NO DATA AVAILABLE
<b>GERM CELL MUTAGENICITY:</b>	NO DATA AVAILABLE
<b>CARCINOGENICITY:</b>	NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS
<b>GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY IARC, ACGIH, NTP, OR OSHA</b>	
<b>REPRODUCTIVE TOXICITY:</b>	NO DATA AVAILABLE
<b>SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE:</b>	NO DATA AVAILABLE
<b>SPECIFIC TARGET ORGAN REPEATED EXPOSURE:</b>	NO DATA AVAILABLE
<b>ASPIRATION HAZARD:</b>	NO DATA AVAILABLE
<b>SYNERGISTIC EFFECTS:</b>	NO DATA AVAILABLE

## **SECTION 12: ECOLOGICAL INFORMATION**

TOXICITY:	NO DATA AVAILABLE
PERSISTENCE AND DEGRADABILITY:	NO DATA AVAILABLE
BIOACCUMULATIVE POTENTIAL:	NO DATA AVAILABLE
MOBILITY IN SOIL:	NO DATA AVAILABLE
OTHER ADVERSE EFFECTS:	NO DATA AVAILABLE

## **SECTION 13: DISPOSAL CONSIDERATION**

**DISPOSAL METHODS:** DISPOSE ACCORDING TO FEDERAL, STATE, OR LOCAL REGULATIONS

## **SECTION 14: TRANSPORTATION INFORMATION**

DOT (US)		NOT DANGEROUS GOODS
MARITIME TRANSPORT	IMDG	NOT DANGEROUS GOODS
AIR TRANSPORTATION	ICAO/IATA	NOT DANGEROUS GOODS
LAND TRANSPORT	ADR/RID	NOT DANGEROUS GOODS

## **SECTION 15: REGULATORY INFORMATION**

**SARA 302 COMPONENTS:** NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 302

**SARA 313 COMPONENTS:** 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

**SARA 311/312 HAZARDS:** NO KNOWN HAZARDS

**CALIFORNIA PROP 65 COMPONENTS:** THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR ANY OTHER REPRODUCTIVE HARM

**PRODUCT NAME:** 9-HEXADECENOIC ACID

**CAS NUMBER:** 373-49-9

## **SECTION 16: OTHER INFORMATION**

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT TO THE BEST OF OUR KNOWLEDGE. ALL INFORMATION IS TO BE USED AS A GUIDE INCLUDING PRECAUTIONARY OR EMERGENCY MEASURES. NU-CHEK-PREP., INC. IS NOT TO BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM THE HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

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## **PURITY GUARANTEE**

NU-CHEK GENERALLY PREPARES CHROMATOGRAPHICALLY PURE COMPOUNDS LISTED IN OUR CATALOG AS HAVING A PURITY GREATER THAN 99%+. VARYING DEGREES OF PURITY (I.E. RELATIVELY PURE GREATER THAN 90%) ARE SO LISTED. COMPOUNDS OF LESSER DEGREE PURITY CAN ALSO BE OBTAINED BY SPECIAL REQUEST.

ALL PRODUCTS MADE AVAILABLE UNDER OUR LABEL ARE GUARANTEED TO MEET THE MINIMUM SPECIFICATIONS DESIGNATED AT THE TIME OF SALE. AGE OR CONDITION OF STORAGE MAY ALTER CHEMICAL PROPERTIES FOR WHICH CHANGE WE CANNOT BE HELD LIABLE.

IF AT THE TIME OF SALE ANY OF OUR PREPARATIONS ARE FOUND TO BE INFERIOR OR OF A DEGREE PURITY LESS THAN SPECIFIED, NU-CHEK WILL SUPPLY YOU (FREE OF CHARGE) AN ADEQUATE REPLACEMENT, OR AT OUR OPTION, REFUND YOUR PURCHASE PRICE. ALL CLAIMS MUST BE MADE WITHIN 60 DAYS OF INVOICE DATE. (ANTIOXIDANTS TEND TO ALTER NORMAL COMPOUND FUNCTIONS AND ARE NEVER ADDED UNLESS REQUESTED SPECIFICALLY.)

OUR UNSATURATED COMPOUNDS ARE INSERTED IN VIALS BY VOLUME AND NOT WEIGHT-FLUSHED WITH NITROGEN SEVERAL TIMES AND SEALED UNDER HIGH VACUUM.

**EACH VIAL CONTAINS AT LEAST THE MINIMUM AMOUNT SPECIFIED ON THE LABEL.  
EXACT WEIGHTS MAY BE OBTAINED IF DESIRED WITH A \$3.75 RESEAL CHARGE PER VIAL.**

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## CERTIFICATE OF ANALYSIS

SCIENTIFIC NAME: 9-HEXADECENOIC ACID

COMMON NAME: PALMITOLEIC ACID

DENSITY: 0.895 g/ml

GAS LIQUID CHROMATOGRAPHY: >99%

THIN LAYER CHROMATOGRAPHY: SHOWS ONLY THE ACID MOIETY PRESENT

FORMULA:  $C_{16}H_{30}O_2$

APPEARANCE: CLEAR LIQUID AT ROOM TEMPERATURE

LOT: U-40A-F13-E

FORMULA WEIGHT: 254.40 CAS # 373-49-9

ORIGINAL SOURCE OF MATERIAL: MACADAMIA NUT OIL

EXPIRATION DATE: UNLIMITED IF UNOPENED AND STORED AT 0 OR COLDER. 6 MONTHS IF OPENED AND UNDER GOOD STORAGE CONDITIONS

DUE TO OUR UNIQUE SEALING PROCESS, SHIPPING ON ICE IS NOT NECESSARY. WE DO ASK THAT ONCE RECEIVED, IT IS PLACED IN A COLD PLACE AND OUT OF THE LIGHT

OUR UNSATURATED COMPOUNDS ARE INSERTED IN VIALS BY VOLUME AND NOT WEIGHT, FLUSHED WITH NITROGEN AND SEALED UNDER HIGH VACUUM. EACH VIAL CONTAINS AT LEAST THE MINIMUM AMOUNT SPECIFIED ON THE LABEL.

### SAFETY DATA INFORMATION

THIS COMPOUND MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN. IT MAY CAUSE EYE IRRITATION, BE IRRITABLE TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.

TO THE BEST OF OUR KNOWLEDGE THE TOXICOLOGICAL PROPERTIES HAVE NOT BEEN FULLY INVESTIGATED.

CONTAMINATION OF THE EYES OR SKIN SHOULD BE FOLLOWED BY WASHING WITH LARGE AMOUNTS OF WATER.

ALL OF THE COMPOUNDS WHICH YOU HAVE PURCHASED FROM NU-CHEK-PREP ARE HIGHLY PURIFIED LIPID STANDARDS THAT HAVE BEEN ISOLATED OR SYNTHESIZED FROM VARIOUS VEGETABLE OILS.

AS A FINAL PRECAUTIONARY MEASURE, ALL RESIDUAL VOLATILE ORGANIC CONTAMINATES ARE REMOVED BY HIGH VACUUM FRACTIONAL DISTILLATION. SINCE MANY OF OUR PURE PRODUCTS ARE UNSATURATED, THE FINAL PRODUCT IS GENERALLY FLUSHED WITH INERT GAS (i.e.,  $N_2$ ) AND HERMETICALLY SEALED IN GLASS VIALS UNDER VACUUM AND STORED UNDER LOW TEMPERATURE ( $-30^{\circ}C$ ) CONDITIONS UNTIL READY FOR SHIPMENT.

THESE PRODUCTS ARE PREPARED IN SMALL RESEARCH QUANTITIES FOR THE LIPID ORGANIC SCIENTIFIC COMMUNITY. WHILE THESE MATERIALS MAY BE TOXIC, THEY ARE NOT INTENDED FOR HUMAN CONSUMPTION OR AS A MEDICINAL OR DRUG RELATED USES. OUR PRODUCTS ARE USED IN ANIMAL STUDIES AND AS STANDARDS STRICTLY FOR RESEARCH.

WE CERTIFY THIS LOT CONFORMS TO THE PRODUCT SPECIFICATIONS AND HAS BEEN RELEASED FOR SALE.

COUNTRY OF ORIGIN AND MANUFACTURE: UNITED STATES OF AMERICA