

CERTIFICATE OF ANALYSIS/COMPLIANCE

Elevance Product: NATUREWAX C-3 CONTAINER WAX
Lot No.: L4D25

CT)

Analysis	Actual Result	Spec Min	Spec Max	Reference Method
Color Red	0.20		1.50	AOCS Cc 13j-97
Free Fatty Acids as oleic (282)	0.083		.150	AOCS Ca 5a-40
Peroxide Value	0.20		1.50	AOCS Cd 8b-90
Iodine Value	54.1	50.0	56.0	AOCS Cd 1c-85
Mettler Dropping Point	128.4	124.0	130.0	AOCS Cc 18-80

Additives: See product description

Anti-Foaming Agents: None

Antioxidants: None

Comments:

This COA was validated against the product specification and generated electronically. If you have any questions concerning this document, please feel free to contact us at the number listed below.

Certificate of Analysis

Material: 100087266
NATRWX FLK C-3 CNT 13C2030CT 50LB
CTN HT

Delivery:
PO Number:
Contract Number:

Customer Product Code:

Batch: 3000199586
Date of Manufacture: 08/30/2014

Truck/Rail/Container ID:

Characteristic	Result	Unit of Measure	Min	Max	Method
Sample Identification: 8					
Color Red	0.8			1.5	AOCS Cc 13j-97
Free Fatty Acids as oleic (282)	0.10	%		0.15	AOCS Ca 5a-40
Iodine Value	54.48		50.00	56.00	AOCS Cd 1c-85
Mettler Dropping Point	126.00	°F	124.00	130.00	AOCS Cc 18-80
Peroxide Value	0.20	meq/Kg		1.50	AOCS Cd 8b-90

Results listed as typical or identified with an asterisk (*) are not tested on each batch, have not been tested on the listed batch, and represent values or ranges normally found in this material.

This COA was generated electronically. If you have any questions concerning this document, please feel free to contact Cargill at the number listed below.

Noel Shields

FSQR Lead

704-679-7099|704-679-7104 24HR

noel_shields@cargill.com

Material Safety Data Sheet

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade Name 13C2030CT / 13C2040CT NatureWax® C-3 Container Wax (53684)
REACH Substance Name Not assigned
REACH Registration Number Not assigned
MSDS #: ELE-0003-D
MSDS Date April 8, 2011

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: Substitute for paraffin in wax applications
Uses Advised Against: None

1.3 Details of the Supplier of the Substance or Mixture

Manufacturer: Elevance Renewable Sciences, Inc.
2501 Davey Road
Woodridge, IL 60517

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

CLP/GHS Classification (1272/2008): Not Hazardous

EU Classification (67/548/EEC): Not a dangerous substance

2.2 Label Elements

No Labelling Required

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	CAS Number / EINECS Number / REACH Reg. Number	% (w/w)	EU Classification (67/548/EEC)	CLP/GHS Classification (1272/2008)
Hydrogenated Soybean Blend	Proprietary	90%- 100%	Not classified as dangerous	Not Hazardous
Non-Hazardous Additive	Proprietary	0-10%	Not classified as dangerous	Not Hazardous

See Section 16 for full text of GHS and EU Classifications.

This product is recognized as Safe (GRAS) under the Food, Drug and Cosmetic Act.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

First Aid

Eye contact: Immediately flush eye with water while lifting the upper and lower lids. Get medical attention if irritation persists.

Skin contact: Wash with soap and water. Get medical attention if irritation develops. For contact with hot material immediately immerse burned area in cold water until the wax has cooled completely. If the burned area is small and the burn minor, carefully peel off the hardened wax without damaging the skin. For larger areas or a more serious burn, do not attempt to remove the wax as that may further damage the skin. Get medical attention immediately.

Inhalation: Remove victim to fresh air. Get medical attention if irritation develops or persists.

Ingestion: No first aid should be needed. Get medical advice if large amount is swallowed and adverse effects develops.

See Section 11 for more detailed information on health effects.

4.2 Most Important symptoms and effects, both acute and delayed: Only mild irritation is expected from contact or inhalation exposure. Hot wax can cause serious thermal burns to exposed tissue.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical attention may be required for extensive thermal burns from hot wax. No medical attention normally required for exposure to ambient temperature material.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media:

Treat as oil or grease fire. Use dry chemical or universal foam to extinguish fires. Do not use water as it may spread fire by dispersing the wax.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: Combustible products such as rags, waste paper or filter clay saturated with oil may heat and burn spontaneously.

Combustion Products: Oxides of carbon, smoke.

5.3 Advice for Fire-Fighters: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus. Cool exposed intact containers with water spray or stream.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Caution – slip hazard. Wear appropriate protective equipment.

6.2 Environmental Precautions:

Prevent entry in storm sewers and waterways. Report spill as required by local and federal regulations.

6.3 Methods and Material for Containment and Cleaning Up:

Collect solid material by scooping or sweeping. Allow molten wax to harden then scrape up. Place in appropriate container for re-use or disposal. Wash spill site with detergent and water.

6.4 Reference to Other Sections:

Refer to Section 8 for personal protective equipment, and Section 13 for disposal information.

SECTION 7: HANDLING and STORAGE

7.1 Precautions for Safe Handling:

Avoid eye and prolonged/repeated skin contact. Avoid breathing vapors or mists from heated material. Remove oil-soaked clothing and launder before re-use.

7.2 Conditions for Safe Storage, Including any Incompatibilities:

Protect containers from physical damage. Store in a cool area. Keep away from excessive heat and open flames. Keep containers closed when not in use.

Empty containers retain product residues. Do not cut, weld, braze, etc. on or near empty containers. Follow all MSDS precautions in handling empty containers

7.3 Specific end use(s):

Industrial uses: None identified

Professional uses: None identified

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	US OEL	EU IOEL	UK OEL	Biological Limit Value
Hydrogenated Soybean Blend (as vegetable oil mist)	5 mg/m ³ TWA OSHA PEL (respirable fraction) 15 mg/m ³ TWA OSHA PEL (as total particulate)	None Established	None Established	None Established
Non-Hazardous Additive	None Established	None Established	None Established	None Established

8.2 Exposure Controls:

Recommended Monitoring Procedures: Collection on filters with gravimetric analysis.

Appropriate Engineering Controls: Good general room ventilation should be adequate under normal conditions. If the recommended exposure limit is exceeded increased mechanical ventilation such as local exhaust may be required.

Personal Protective Measurers

Eye/face Protection: Follow facility requirements. Use proper protection - safety glasses as a minimum.

Skin Protection: None normally needed. Impervious clothing is recommended if needed to avoid prolonged/repeated skin contact. Wear long sleeves and pants when handling hot material.

Hands: None normally needed under ambient conditions. If the product is heated, heat protective gloves should be used.

Respiratory Protection: None needed under normal use conditions with adequate ventilation. If the exposure limit is exceeded or irritation is experienced, use an approved respirator with an R or P series filter (or equivalent). Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 or other applicable regulations and good Industrial Hygiene practice.

Other protection: Suitable washing facilities should be available.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties

Appearance: Pale yellow, oily solid

Odor Threshold: Not established

Melting/Freezing Point: Not available

Flash Point: >600°F (315°C) COC

Lower Flammability Limit: Not available

Upper Flammability Limit: Not available

Vapor Density(Air=1): >1.0

Solubility: Insoluble

Autoignition Temperature: Not established

Viscosity: Not established

Oxidizing Properties: None

Molecular Formula: Mixture

Odor: faint odor

pH: Not applicable

Boiling Point: Not applicable

Evaporation Rate: Not applicable

Vapor Pressure: Not applicable

Relative Density: <0.920-0.925

Octanol/Water Partition Coefficient: Not available

Decomposition Temperature: Not established

Explosive Properties: None

Specific Gravity (H₂O= 1): <0.920-0.925

Molecular Weight: Mixture

9.2 Other Information: None available

SECTION 10: STABILITY and REACTIVITY

10.1 Reactivity: Spontaneous combustion can occur.

10.2 Chemical Stability: Normally stable.

10.3 Possibility of Hazardous Reactions: High surface area exposure to oxygen can result in polymerization and release of heat.

10.4 Conditions to Avoid: Avoid excessive heat and open flame.

10.5 Incompatible Materials: Strong oxidizing agents.

10.6 Hazardous Decomposition Products: Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Eye Contact: May cause mild irritation with redness and tearing.

Skin contact: Prolonged or repeated contact may cause mild irritation or dryness. Contact with hot material may cause thermal burns.

Inhalation: Inhalation of mists may cause upper respiratory tract irritation.

Ingestion: Adverse effects are normally expected. Swallowing large amounts may cause gastrointestinal effects including nausea and diarrhea.

Acute Toxicity: Pure Soybean Blend: LD50 oral rat >5000 mg/kg
S Additive: No data available

Skin corrosion/irritation: Slightly irritating in laboratory animals

Eye damage/ irritation: Slightly irritating in laboratory animals

Respiratory Irritation: No data available

Respiratory Sensitization: No data available

Skin Sensitization: Negative in guinea pig maximization test. Not sensitizing in tests with humans.

Germ Cell Mutagenicity: No data available

Carcinogenicity: No carcinogenic effects were observed in studies with rats, mice or rabbits in long-term feeding studies. None of the components of this product are listed as carcinogens by OSHA, ACGIH, IARC, NTP, or the EU Dangerous Substances Directive.

Reproductive Toxicity: No adverse reproductive effects or developmental effects were observed in a two-generation and other life-time feeding studies in rats.

Specific Target Organ Toxicity:

Single Exposure: No data available

Repeat Exposure: No adverse effects were observed in studies with rats, mice or rabbits in long-term feeding studies.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity: No data available. This material is not expected to be hazardous to aquatic organisms.

12.2 Persistence and degradability: No data available

12.3 Bioaccumulative Potential: No data available

12.4 Mobility in Soil: No data available

12.5 Results of PVT and vPvB assessment: Not required.

12.6 Other Adverse Effects: No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Dispose in accordance with local, state and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	None	Not Regulated			
Canadian TDG	None	Not Regulated			
EU ADR/RID	None	Not Regulated			
IMDG	None	Not Regulated			
IATA/ICAO	None	Not Regulated			

14.6 Special Precautions for User: None

14.7 Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code: Not determined.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

INTERNATIONAL INVENTORIES

EPA TSCA INVENTORY: All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CANADIAN ENVIRONMENTAL PROTECTION ACT: All of the ingredients are listed on the Canadian Domestic Substances List.

EUROPEAN UNION: All of the components of this product are listed on the European Inventory of New and Existing Chemical Substances (EINECS) inventory.

AUSTRALIA: All of the ingredients of this product are listed on the Australian Inventory of Chemical Substances (AICS).

CHINA: All of the ingredients are listed on the Chinese chemical inventory.

KOREA: All of the components of this product are listed on the Korean Existing Chemical List (KECL).

NEW ZEALAND: All of the components of this product are listed on the New Zealand Inventory of Chemicals (NzIoC).

PHILIPPINES: All of the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

U.S. REGULATIONS

OSHA HAZARD CLASSIFICATION: Hazardous (Exposure limit)

EPA SARA 302: This product does not contain chemicals regulated under SARA Section 302.

EPA SARA 311 HAZARD CLASSIFICATION: Non-hazardous

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313: None

CALIFORNIA PROPOSITION 65: This product contains the following chemicals which are known to the State of California to cause cancer or reproductive toxicity: None

SECTION 16: OTHER INFORMATION

Revision History: Updated format for REACH.

EU Classes and Risk Phrases for Reference (See Sections 2 and 3)

None.

CLP/GHS Classification and H Phrases for Reference (See Section 3)

None.

NFPA Rating:	Health: 0	Fire: 1	Instability: 0
HMIS Rating:	Health: 1	Fire: 1	Physical Hazard: 0

WE RECOMMEND THAT CONTAINERS BE EITHER PROFESSIONALLY RECONDITIONED FOR RE-USE BY CERTIFIED FIRMS OR PROPERLY DISPOSED OF BY CERTIFIED FIRMS TO HELP REDUCE THE POSSIBILITY OF AN ACCIDENT. DISPOSAL OF CONTAINERS SHOULD BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. "EMPTY" DRUMS SHOULD NOT BE GIVEN TO INDIVIDUALS.

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