

## SAFETY DATA SHEET

(according to (EC) 1907/2006)

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier**    CASTUNG® 103 G-H

**Synonyms:**                Dehydrated Castor Oil; XXX-1

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Food processing plant lubricant.

**1.3. Details of the supplier of the safety data sheet**

**Manufacturer Information:**    Vertellus LLC  
    201 North Illinois Street, Suite 1800,  
    Indianapolis, IN 46204

**Non-Emergency Fax Number:**    336-854-4058  
**E-Mail Address:**                        msds@vertellus.com

**Non-Emergency Phone Number:** 336-292-1781

**1.4. Emergency telephone number**

Vertellus: 336-292-1781  
 CHEMTREC (USA): (800) 424-9300  
 (collect calls accepted); (Int'l): (703) 527-3887  
 (collect calls accepted; 011 prefix not needed)

### SECTION 2: Hazards identification

HMIS Rating	EC Classification	WHMIS (Canada)	Transportation
<div style="background-color: #0056b3; color: white; padding: 2px; margin-bottom: 2px;">HEALTH    0</div> <div style="background-color: #d62728; color: white; padding: 2px; margin-bottom: 2px;">FLAMMABILITY    1</div> <div style="background-color: #ffc107; color: black; padding: 2px;">REACTIVITY    0</div>	Not Classified as Hazardous	Not Controlled	Not Regulated

**2.1. Classification of the substance or mixture**

(According to Regulation (EC) No 1272/2008)

Not classified as hazardous under this directive.

**Signal Word:**

Not required.

**Hazard Precautions:**

Not classified as hazardous under this directive.

**2.2. Label elements**



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### Prevention Precautions:

Note: These precautionary statements are not prescribed by directive 1272/2008 as this product is not classified as hazardous under this directive. Wash hands thoroughly after handling with soap and water. Wear protective gloves, protective clothing, eye protection and face protection. If swallowed, in eyes, on skin or inhaled call a poison center or doctor/physician if you feel unwell. If inhaled, remove victim to fresh air and keep at rest in a comfortable position for breathing. Take off contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed.

### First Aid Precautions:

Not required.

### Storage Precautions:

Not required.

### Disposal Precautions:

Not required.

### Single Exposure Target Organs:

Not applicable

### Repeated Exposure Target Organs:

Not applicable

### (According to Directive 67/548/EEC)

Symbol: Not classified as hazardous under this directive.

Risk Phrases: Not classified as hazardous under this directive.

Safety Phrases: Not classified as hazardous under this directive.

### 2.3. Other hazards

**Signs and Symptoms of Potential Overexposure:** Contact with this product may cause mild irritation to skin, eyes and mucous membranes. No dermal reactions were observed in a 48-hour human patch test. This product is not expected to be toxic by inhalation, ingestion or dermal exposure. Although it has been observed that health effects related to this substance are minimal, as with any chemical, use appropriate precautions during handling. □

**Primary Route(s) of Exposure:** Skin contact and absorption, eye contact, and inhalation. Ingestion is not likely to be a primary route of exposure.

**Medical Conditions Aggravated by Exposure:** Persons with pre-existing skin or respiratory disorders may be at increased risk from overexposure to this material. This is not likely to be a problem when appropriate procedures are used to minimize exposure.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances or 3.2. Mixtures

Ingredient	CAS Number	Concentration (%)	EINECS / ELINCS	EU Symbol	Risk Phrases
CASTUNG® 103G-H	64147-40-6	100.000000	264-705-7	N/A	N/A

NOTE: See Section 8 of this MSDS for exposure limit data for these ingredients.

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See Section 15 of this MSDS for trade secret information (where applicable).  
See Section 16 of this MSDS for the full text of the R-phrases above.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- Skin Contact:** Wash thoroughly after skin contact. The exposed area should be examined by medical personnel if irritation or pain persists after the area has been washed.
- Eye Contact:** Immediately flush the eyes with plenty of water for at least 15 minutes. Call a physician. GET MEDICAL ATTENTION.
- Inhalation:** Remove from exposure. If not breathing, give artificial respiration and call a physician. If breathing has stopped, give artificial respiration. Keep affected person warm and at rest. GET MEDICAL ATTENTION.
- Ingestion:** If swallowed, do not induce vomiting. Get prompt medical attention. Give oxygen if respiration is shallow. GET MEDICAL ATTENTION.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Acute:** Contact with this product may cause mild irritation to skin, eyes and mucous membranes. No dermal reactions were observed in a 48-hour human patch test. This product is not expected to be toxic by inhalation, ingestion or dermal exposure. Although it has been observed that health effects related to this substance are minimal, as with any chemical, use appropriate precautions during handling. □
- Delayed Effects:** None known.

#### 4.3. Indication of any immediate medical attention and special treatment needed

- Thermal Exposure:** Not applicable.
- Note to Physician:** No specific indications. Treatment should be based on the judgment of the physician in response to the reactions of the patient.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Appropriate Extinguishing Media:** Use water fog, alcohol resistant foam, carbon dioxide, or dry chemical.

#### 5.2. Special hazards arising from the substance or mixture

- Hazardous Products of Combustion:** As with other organic materials, combustion will produce carbon monoxide and carbon dioxide.
- Potential for Dust Explosion:** Not applicable.
- Special Flammability Hazards:** Cloth or absorbent materials saturated with product may self-ignite on drying. Thoroughly wet any oil-soaked materials immediately with water and dispose in sealed metal containers.

#### 5.3. Advice for firefighters

- Basic Fire Fighting Guidance:** Wear self-contained breathing apparatus and protective clothing. Normal firefighting procedures may be used.
- Flammability Classification (OSHA):** Combustible Liquid - Class III B

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NFPA Rating



### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuation Procedures:	Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Special Instructions:	Remove all contaminated clothing to prevent further absorption. Decontaminate affected personnel using the first aid procedures in Section 4. Leather shoes that have been saturated must be discarded. not applicable

#### 6.2. Environmental precautions

Prevent releases to soils, drains, sewers, and waterways.

#### 6.3. Methods and material for containment and cleaning up

Containment Techniques and Clean-up Procedures:	Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Remove all ignition sources. Ventilate the area of spill or leak. Wear protective equipment during clean-up. For small spills, use suitable absorbent material and collect for later disposal. For large spills, the area may require diking to contain the spill. Material can then be collected (eg., suction) for later disposal. After collection of material, flush area with water. Dispose of the material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable federal, state or local laws.
Special Reporting Requirements:	Not applicable.

#### 6.4. Reference to other sections

Refer to section 8 for information on selecting personal protective equipment. Refer to section 13 for information on spilled product, absorbent and clean up material disposal instructions.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for Unique Hazards:	Materials saturated with product or containing product residues should be thoroughly wetted with water and disposed in metal containers to prevent self-ignition.
Practices to Minimize Risk:	Wear appropriate protective equipment when performing maintenance on contaminated equipment. Wash hands thoroughly before eating or smoking after handling this material.
Special Handling Equipment:	Not applicable.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage Precautions & Recommendations:	This product should be stored at ambient temperature in a dry, well-ventilated location. Keep container closed when not in use. Keep away from strong oxidizing agents.
Dangerous Incompatibility Reactions:	Strong oxidizing agents



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Incompatibilities with Materials of Construction: none known

### 7.3. Specific end use(s)

If a chemical safety assessment has been completed an exposure scenario is attached as an annex to this Safety Data Sheet. Refer to this annex for the specific exposure scenario control parameters for uses identified in subsection 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Exposure Limits (United States): OSHA PEL: Not established ACGIH TLV: Not established

### 8.2. Exposure controls

Also see the annex to this SDS (if applicable) for specific exposure scenario controls.

**Personal Protective Equipment:** Where overexposures are a concern, use NIOSH-approved chemical cartridge respirator or supplied-air breathing equipment as necessary. Chemical goggles, and impervious clothing, gloves and boots should be considered if extensive splashing is likely. Do not smoke or eat in areas where this material is handled. Wash hands thoroughly before eating or smoking.

**Respirator Caution:** Observe OSHA regulations for respirator use (29 CFR 1910.134). Air-purifying respirators must not be used in oxygen-deficient atmospheres.

**Ventilation:** All operations should be conducted in well-ventilated conditions. Local exhaust ventilation should be provided.

**Other Engineering Controls:** All appropriate engineering controls should be used to minimize exposure potential. Use exhaust ventilation to keep airborne concentrations below exposure limits.

**Thermal Hazards:** Not applicable.

**Additive or Synergistic Effects:** None known.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance, State & Odor (ambient temperature):	Clear amber liquid with a characteristic odor.		
Molecular Formula:	Not available	Molecular Weight:	Not available.
Vapor Pressure:	< 0.01 mm Hg @ 25°C	Evaporation Rate:	< 1 (Butyl Acetate = 1)
Specific Gravity or Density:	0.931	Vapor Density (air = 1):	> 1 (1 = air)
Boiling Point:	595 °F	Freezing / Melting Point:	-40 °F Not available.
Solubility in Water:	insoluble	Octanol / Water Coefficient:	log Kow = 22.65 (estimated)
pH:	Not available.	Odor Threshold:	Not available
Viscosity:	Not available.	Autoignition Temperature:	840°F
Flash Point and Method:	400°F (204°C) (Pensky-Martens Closed Cup)	Flammable Limits:	Not available (LEL) – Not available (UEL)

### 9.2. Other information

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Not applicable.

### SECTION 10: Stability and reactivity

<u>10.1. Reactivity</u>	Not classified as dangerously reactive.
<u>10.2. Chemical stability</u>	Stable
<u>10.3. Possibility of hazardous reactions</u>	Polymerization is not expected to occur
<u>10.4. Conditions to avoid</u>	Avoid static discharge and uncontrolled exposure to high temperatures.
<u>10.5. Incompatible materials</u>	Strong oxidizing agents
<u>10.6. Hazardous decomposition products</u>	As with other organic materials, combustion will produce carbon monoxide and carbon dioxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute Oral LD <sub>50</sub> :	Not available.
Acute Dermal LD <sub>50</sub> :	Not available.
Acute Inhalation LC <sub>50</sub> :	Not available.
Skin Irritation:	Prolonged or repeated contact may cause irritation in some individuals.
Skin Sensitization:	No data available.
Eye Irritation:	May cause slight irritation.
Target Organs:	No data available.
Carcinogenicity:	This material is not listed by IARC, NTP or OSHA as a carcinogen. No test data is available that indicates this material is a carcinogen.
Teratogenicity:	No data available.
Reproduction:	No data available.
Neurotoxicity:	No data available.
Mutagenicity:	No data available.

### SECTION 12: Ecological information

<u>12.1. Toxicity</u>	Not available.
<u>12.2. Persistence and degradability</u>	No data No data available.
<u>12.3. Bioaccumulative potential</u>	No data
<u>12.4. Mobility in soil</u>	No data



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12.5. Results of PBT and vPvB assessment Not available.  
12.6. Other adverse effects No data available. Not available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

US EPA Waste Number: Not applicable

Waste Classification: (per US regulations) The waste may be classified as "special" or hazardous per State regulations.  
NOTE: Generator is responsible for proper waste characterization. State (USA) hazardous waste regulations may differ substantially from federal (USA) regulations.

Waste Disposal: Dispose of this material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable international, national, regional, state or local laws. Do NOT dump into any sewers, on the ground, or into any body of water. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. Note that disposal regulations may also apply to empty containers and equipment rinsates.

### SECTION 14: Transport information

14.1. UN number Not applicable

14.2. UN proper shipping name Chemicals, n.o.s. (Castor Oil, dehydrated)

14.3. Transport hazard class(es) Not applicable

14.4. Packing group Not applicable

14.5. Environmental hazards Not applicable

14.6. Special precautions for user Not available.

NA Emergency Guidebook Numbers: Not applicable      IMDG EMS: Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

OSHA Hazards: Possible Irritant. Presents little or no immediate significant hazard if spilled or involved in a fire.

WHMIS Classification: Not Controlled

Chemical Inventory Lists: Status

TSCA: Present

EINECS: 264-705-7



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Canada(DSL/NDL):	DSL
Japan:	(8)-600
Korea:	KE-04983
Australia:	Present
New Zealand:	Present
China:	Present
Philippines:	Present
Switzerland:	Not Listed

New Zealand GHS Classification: Not classified by this country.

Japan GHS Classification: Not classified by this country.

Korea (MOL) GHS Classification: Not classified by this country.

Australia GHS Classification: Not classified by this country.

Taiwan GHS Classification: Not classified by this country.

Indonesia GHS Classification: Not classified by this country.

SARA 313: Not listed.

Reportable Quantities: Not applicable

State Regulations: Not applicable.

### 15.2. Chemical safety assessment

Not applicable.

## SECTION 16: Other information

Full text of R phrases in Section 3: Not applicable.



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### Legend of abbreviations:

ACGIH = American Conference on Governmental Industrial Hygienists.  
CAS = Chemical Abstracts Service.  
CERCLA = Comprehensive Environmental, Response, Compensation and Liability Act (1990).  
CFR = Code of Federal Regulations.  
DSL/NDL = Domestic Substances List/Non-Domestic Substances List.  
EC = European Community.  
EEC = European Economic Community.  
EINECS = European Inventory of Existing Commercial chemical Substances.  
ELINCS = European List of Notified Chemical Substances.  
EU = European Union.  
GHS = Globally Harmonized System.  
LC = Lethal concentration.  
LD = Lethal dose.  
MOL = Ministry of Labor.  
NEMA = National Emergency Management Agency.  
NFPA = National Fire Protection Association.  
NIOSH = National Institute of Occupational Safety and Health.  
NTP = National Toxicological Program.  
OSHA = Occupational Safety and Health Administration  
PEL = Permissible exposure limit.  
RQ = Reportable quantity.  
SARA = Superfund Amendments and Reauthorization Act of 1986.  
TLV = Threshold limit value.  
WHMIS = Workplace Hazardous Materials Information System.

**Precautionary Statement:** Please note that the information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

Revision Date: 5 November 2010

Original Date of Issue: 8 October 1989

Issued By: Regulatory Management Department

Revision Details: Revised in all sections to GHS format.