

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

1.1. Product identifier	FLEXRICIN* 100
Chemical Abstracts Registry No:	68604-47-7
<b>REACH Registration Number:</b>	Exempt from REACH registration requirements (Annex V)
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
chemical intermediate plasticizer	
1.3. Details of the supplier of the safety o	ety data sheet
Vertellus LLC 201 North Illinois Street, Suite 1800 Indianapolis, Indiana 46204 USA 1-336-292-1781	
e-mail Address:	sds@vertellus.com
<u>1.4. Emergency telephone number</u>	Vertellus: 1-336-292-1781   CHEMTREC (USA): +1-800-424-9300 (collect calls accepted)   CHEMTREC (International): +1-703-527-3887 (collect calls accepted)   NRCC (China): +86 25 85477110

### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture (According to Regulation (EC) No 1272/2008, 29 CFR 1910.1200 and the Globally Harmonized System)

Not Classified as Hazardous

2.2. Label elements	
Signal Word:	Not required.
Hazard Precautions:	Not Classified as Hazardous
Prevention Precautionary Statements:	Note: These precautionary statements are not prescribed by Regulation EC 1272/2008 as this product is not classified as hazardous under this regulation. 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.
2.3. Other hazards	
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Other Hazards:

Not applicable.

### **SECTION 3: Composition/information on ingredients**

3.1. Substances or 3.2. Mix	ures				
Ingredient	CAS Number	Concentration	EC Number	CLP Inventory/	EU CLP Classification



		(weight %)		Annex VI	(1272/2008)
FLEXRICIN® 100	68604-47-7	~ 100	614-641-4	Not listed.	Not applicable.

NOTE: See Section 8 for exposure limit data for these ingredients. See Section 15 for trade secret information (where applicable).

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

Skin Contact:	Wash thoroughly after skin contact. Get medical attention if irritation develops or persists.
Eye Contact:	Immediately flush the eyes with plenty of water for at least 15 minutes. Call a physician.
Inhalation:	Remove from exposure. If not breathing, give artificial respiration and call a physician.
Ingestion:	If swallowed, do not induce vomiting. Get prompt medical attention.
4.2 Most important symptoms a	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	e medical attention and special treatment needed

**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 Water fog, foam, carbon dioxide, or dry chemical Media:

### 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:	Not applicable.
5.3. Advice for firefighters	
Basic Fire Fighting Guidance:	Wear self-contained breathing apparatus and full protective clothing (i.e., Bunker gear). Skin and eye contact should be avoided. Normal fire fighting procedures may be used.

### **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:See Section 8 for personal protective equipment recommendations. Remove all contaminated clothing<br/>to prevent further absorption. Decontaminate affected personnel using the first aid procedures in<br/>Section 4. Leather shoes that have been saturated must be discarded.

### 6.2. Environmental precautions

Prevent releases to soils, drains, sewers and waterways.

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

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.

### 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: Not applicable.

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. Do not eat, drink or smoke in work areas. Prevent contact with incompatible materials. Avoid spills and keep away from drains. Handle in a manner to prevent generation of aerosols, vapors or dust clouds.
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. closed when not in use.	Keep container
Dangerous Incompatibility Reactions:	Incompatible with oxidizing materials	
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

**Occupational Exposure Limit:** 

Not established



Air Monitoring Method:

# SAFETY DATA SHEET

Not required

8.2. Exposure controls	
Also see the annex to this SDS (if ap	oplicable) for specific exposure scenario controls.
Other Engineering Controls:	All operations should be conducted in well-ventilated conditions. Local exhaust ventilation should be provided.
Personal Protective Equipment:	Where overexposures are a concern, use NIOSH-approved chemical cartridge respirator or supplied-air breathing equipment as necessary. Safety glasses or chemical goggles. Work uniforms or impervious clothing and boots. Latex rubber gloves are recommended where contact is likely.
Respirator Caution:	Observe OSHA regulations for respirator use (29 CFR 1910.134) or equivalent guidance. Air-purifying respirators must not be used in oxygen-deficient atmospheres.
Thermal Hazards:	Not applicable.
Environmental Exposure Controls:	The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### **SECTION 9: Physical and chemical properties**

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

Appearance, State & Odor (ambient temperature):	Clear pale yellow to amber liquid	with mild odor.	
Vapor Pressure:	No data available.	Evaporation Rate:	< 1 (Butyl Acetate = 1)
Specific Gravity or Density:	No data available.	Vapor Density (air = 1):	No data available.
Boiling Point:	230 - 250 °C @ 760 mm Hg	Freezing / Melting Point:	-32 °C
Solubility in Water:	Insoluble	Octanol / Water Coefficient:	No data available.
рН:	No data available.	Odor Threshold:	No data available.
Viscosity:	No data available.	Autoignition Temperature:	No data available.
Flash Point and Method:	435 - 480°F (224 - 249°C) COC	Flammable Limits:	No data available.
Flammability (solid, gas):	No data available.	Decomposition Temperature:	No data available.
Explosive Properties:	Not explosive.	Oxidizing Properties:	Not an oxidizer.

### 9.2. Other information

Not applicable.

### **SECTION 10: Stability and reactivity**

10.1. Reactivity

Not classified as dangerously reactive.



10.2. Chemical stability	Stable
10.3. Possibility of hazardous reactions	Will not occur.
10.4. Conditions to avoid	Avoid static discharge and uncontrolled exposure to high temperatures.
10.5. Incompatible materials	Incompatible with oxidizing materials
10.6. Hazardous decomposition products	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 LD50:	> 5000 mg/kg (rat)
Acute Dermal LD50:	No data available.
Acute Inhalation LC50:	No data available.
Skin Irritation:	May cause slight irritation.
Eye Irritation:	Non-irritating to eyes.
Skin Sensitization:	Not expected to be a sensitizer.
Mutagenicity:	No data available.
Reproductive / Developmental Toxicity:	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.
Target Organs:	None known
Aspiration Hazard:	Not an aspiration hazard.
Primary Route(s) of Exposure:	Skin contact and absorption, eye contact, and inhalation. Ingestion is not likely to be a primary route of exposure.
Most important symptoms and effects, both acute and delayed	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.
Additive or Synergistic effects:	None known.

### **SECTION 12: Ecological information**

12.1. Toxicity	No data available.
12.2. Persistence and	No data available
<u>degradability</u>	



12.3. Bioaccumulative potential	No data available
<u>12.4. Mobility in soil</u>	No data available
<u>12.5. Results of PBT and vPvB</u> assessment	No data available.
12.6. Other adverse effects	No data available.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

US EPA Waste Number:Non-HazardousWaste Classification: (per US<br/>regulations)The waste may be classified as "special" or hazardous per State regulations.Waste Disposal:NOTE: Generator is responsible for proper waste characterization. State hazardous waste regulations<br/>may differ substantially from federal regulations. Dispose of this material responsibly, and in accordance<br/>with standard practice for disposal of potentially hazardous materials as required by applicable<br/>international, national, regional, state or local laws, and environmental protection duty of care principles.<br/>Do NOT dump into any sewers, on the ground, or into any body of water. For disposal within the EC, the

### **SECTION 14: Transport information**

appropriate classification code according to the European Community List of Wastes should be used.

Note that disposal regulations may also apply to empty containers and equipment rinsates.

#### The following information applies to all shipping modes (DOT/IATA/ICAO/IMDG/ADR/RID/ADN), unless otherwise indicated:

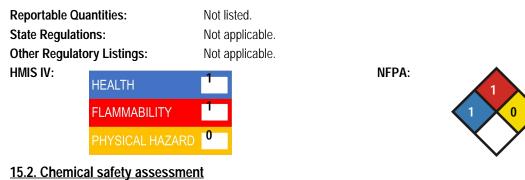
14.1. UN number	Not applicable	14.2. UN proper shipping name	Chemicals, n.o.s. (Fatty acids, castor- oil, polymerized)
14.3. Transport hazard class(es)	Not applicable	14.4. Packing group	Not applicable
14.5. Environmental hazards	Not applicable		
NA Emergency Guidebook Numbers:	Not applicable	IMDG EMS:	Not applicable
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code			Not applicable.

### **SECTION 15: Regulatory information**

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

Chemical Inventory Lists:	Status:		
USA TSCA:	XU	EC / list No.:	614-641-4
Canada(DSL/NDSL):	DSL	Japan:	8-334X
Korea:	KE-14525	Australia:	Not listed.
China:	Listed	Philippines:	Not listed.
Taiwan:	Not listed.	New Zealand:	Not listed.
German Water Hazard Classification:	No data available.		
SARA 313:	Not listed.		





Not applicable.

### **SECTION 16: Other information**

### **Classification Method:**

On basis of test data

### Legend of Abbreviations:

ACGIH = American Conference on Governmental Industrial Hygienists. LD = Lethal Dose. CAS = Chemical Abstracts Service. NFPA = National Fire Protection Association. CFR = Code of Federal Regulations. NIOSH = National Institute of Occupational Safety and Health. DSL/NDSL = Domestic Substances List/Non-Domestic Substances List. NTP = National Toxicology Program. EC = European Community. OSHA = Occupational Safety and Health Administration EINECS = European Inventory of Existing Commercial Chemical Substances. PEL = Permissible Exposure Limit. ELINCS = European List of Notified Chemical Substances. RQ = Reportable Quantity. EU = European Union. SARA = Superfund Amendments and Reauthorization Act of 1986. GHS = Globally Harmonized System. TLV = Threshold Limit Value. LC = Lethal Concentration. WHMIS = Workplace Hazardous Materials Information System.

Important Note: 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. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. The information contained herein may change without prior notice. THIS SAFETY DATA SHEET SUPERSEDES ALL PREVIOUS EDITIONS.

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