

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

1.1. Product identifier 9-	-11*	Acids
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Synonyms: None

Chemical Abstracts Registry No: 61789-45-5

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

Resin intermediate

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

Vertellus LLC 201 North Illinois Street, Suite 1800 Indianapolis, Indiana 46204 USA 1-201-858-7900

e-mail Address: sds@vertellus.com

1.4. Emergency telephone numberVertellus:1-201-858-7900CHEMTREC (USA):+1-800-424-9300 (collect calls accepted)CHEMTREC (International):+1-703-527-3887 (collect calls accepted)NRCC (China):+86 532 83889090

**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 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.
2.3. Other hazards	
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)
Dehydrated castor oil fatty acids	61789-45-5	~ 100	263-061-4	Not listed	Non-Hazardous

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 with soap and water. Get medical attention if irritation develops or persists.	
Eye Contact:	Flush with copious amounts of water for at least 15 minutes. If irritation persists seek medical attention	
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. Do not give anything by mouth to an unconscious person.	
4.2 Most important symptoms and	effects, both acute and delayed	
Acute:	Single exposure to inhaling vapors or mist is not likely to be hazardous. Not expected to be toxic by ingestion. Contact with eyes may cause slight irritation.	
Delayed Effects:	None known.	
4.3. Indication of any immediate medical attention and special treatment needed		
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**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

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Appropriate Extinguishing Media:	Carbon dioxide, Dry chemical, Alcohol foam, Water spray	
5.2. Special hazards arising from the	ne substance or mixture	
Hazardous Products of Combustion:	Carbon dioxide, Carbon monoxide	
Potential for Dust Explosion:	Not applicable.	
Special Flammability Hazards:	Material may burn, but does not ignite readily. Avoid high temperature.	
5.3. Advice for firefighters		
Basic Fire Fighting Guidance:	Evacuate area and fight fire from a safe distance. As in any fire, wear pressure-demand self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. Not known to be sensitive to mechanical impact or static discharges.	

### **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 to prevent further absorption. Decontaminate affected personnel using the first aid procedures in 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

LARGE SPILLS: Shut off leak if safe to do so. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container

#### 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. Not applicable.

**Special Handling Equipment:** 

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

Storage Precautions & Recommendations:	Keep container closed when not in use.
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 applicable.
Air Monitoring Method:	Not required



### 8.2. Exposure controls

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

Other Engineering Controls:	All operations should be conducted in well-ventilated conditions. Local exhaust ventilation should be provided. Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.
Personal Protective Equipment:	Wear safety glasses with side shields. Chemical goggles, faceshield, impervious clothing and boots, if conditions necessitate.
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 to amber colored liquid, with a mild sharp odor.		
Molecular Formula:	No data available.	Molecular Weight:	No data available.
Vapor Pressure:	0 MMHG @ 25°C	Evaporation Rate:	< 1 (Butyl Acetate = 1)
Specific Gravity or Density:	0.91 g/cm <sup>3</sup>	Vapor Density (air = 1):	Heavier than air
Boiling Point:	286°C	Freezing / Melting Point:	- 10 °F
Solubility in Water:	Insoluble	Octanol / Water Coefficient:	Log Pow = 7.73
pH:	No data available.	Odor Threshold:	No data available.
Viscosity:	0.3 St @ 77 F	Autoignition Temperature:	> 300°C
Flash Point and Method:	360 deg°F (182 deg°C) PMCC	Flammable Limits:	No data available.
Flammability (solid, gas):	Not applicable.	Decomposition Temperature:	No data available.
Explosive Properties:	Not explosive.	<b>Oxidizing Properties:</b>	Not an oxidizer.

9.2. Other information

Not applicable.

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

10.1. Reactivity

Not classified as dangerously reactive.

Stable



10.3. Possibility of hazardous	Not expected to occur.
<u>reactions</u>	
10.4. Conditions to avoid	Oxidizing materials
10.5. Incompatible materials	Incompatible with oxidizing materials
<u>10.6. Hazardous decomposition</u> products	Products of incomplete combustion may include carbon monoxide, carbon dioxide, nitrogen oxides, and dense smoke.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

	5000 //		
Acute Oral LD50:	> 5000 mg/ kg	Dehydrated castor oil fatty acids	
Acute Dermal LD50:	> 2000 mg/ kg	Dehydrated castor oil fatty acids	
Acute Inhalation LC50:	> 1.37 mg/L, 4 hrs	Dehydrated castor oil fatty acids	
Skin Irritation:	Non-irritating to skin.		
Eye Irritation:	May cause slight irritation.		
Skin Sensitization:	Not a sensitizer		
Mutagenicity:	Negative in Ames Assay, both with and without metabolic activation.		
Reproductive / Developmental Toxicity:	No evidence of reproductive effects No evidence of teratogenic effects		
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:	Based on physical properties, not likely to be 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	Single exposure to inhaling vapors or mist is not likely to be hazardow Not expected to be toxic by ingestion. Contact with eyes may cause slight irritation. Delayed Effects: None		
Additive or Synergistic effects:	None known.		

# **SECTION 12: Ecological information**

<u>12.1. Toxicity</u>	No data available.
<u>12.2. Persistence and</u> degradability	Readily biodegradable.
12.3. Bioaccumulative potential	No data available
<u>12.4. Mobility in soil</u>	No data available
12.5. Results of PBT and vPvB	No data available.



assessment

12.6. Other adverse effects

No data available.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

US EPA Waste Number: Non-Hazardous Waste Classification: (per US The waste may be classified as "special" or hazardous per State regulations. regulations) Waste Disposal: NOTE: Generator is responsible for proper waste characterization. State hazardous waste regulations may differ substantially from federal regulations. Dispose of this material responsibly, and in accordance

with standard practice for disposal of potentially hazardous materials as required by applicable international, national, regional, state or local laws, and environmental protection duty of care principles. Do NOT dump into any sewers, on the ground, or into any body of water. For disposal within the EC, the 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.

# **SECTION 14: Transport information**

#### 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. (9-11® Acids)	
14.3. Transport hazard class(es)	Not applicable	14.4. Packing group	Not applicable	
14.5. Environmental hazards	Not applicable			
NA Emergency Guidebook	Not applicable	IMDG EMS:	Not applicable;	
Numbers:				
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:	Listed	EINECS:	263-061-4
Canada(DSL/NDSL):	DSL	Japan:	Not listed.
Korea:	KE-14734	Australia:	Listed
China:	34474	Philippines:	Listed
Taiwan:	Listed	New Zealand:	Listed
German Water Hazard Classification:	No data available.		
SARA 313:	Not listed.		
State Regulations:	Not applicable.		
HMIS IV:	1	NFPA:	
	1		0
	0		

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### 15.2. Chemical safety assessment

Not applicable.

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

#### Legend of Abbreviations:

ACGIH = American Conference on Governmental Industrial Hygienists.
CAS = Chemical Abstracts Service.
CFR = Code of Federal Regulations.
DSL/NDSL = Domestic Substances List/Non-Domestic Substances List.
EC = European 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. NFPA = National Fire Protection Association. NIOSH = National Institute of Occupational Safety and Health. NTP = National Toxicology 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.

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