

9-11\* Acids Revision Date: 10 Jul 2017 RUC007 (ENG)

RUC007 (ENG) page 1 of 7

## **SAFETY DATA SHEET**

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

1.1. Product identifier 9-11\* Acids

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

Aurorium

201 North Illinois Street, Suite 1800 Indianapolis, IN 46204 USA

+1 317-247-8141

<u>e-mail Address:</u> SDS@aurorium.com

1.4. Emergency telephone number Vertellus: +1 317-247-8141

<u>CHEMTREC (USA):</u> +1-800-424-9300 CHEMTREC (International): +1-703-527-3887

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

<u>2.1. Classification of the substance or mixture</u> (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 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.

2.3. Other hazards

Other Hazards: Not applicable.

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9-11\* Acids Revision Date: 10 Jul 2017 RUC007 (ENG)

page 2 of 7

### SAFETY DATA SHEET

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

#### 3.1. Substances or 3.2. Mixtures

Ingredient	CAS Number	Concentration (weight %)	EC Number	CLP Inventory/ Annex VI	EU CLP Classification (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** None known.

Effects:

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

Note to No specific indications. Treatment should be based on the judgment of the physician in response to the reactions of the

Physician: patient.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Appropriate Extinguishing

Carbon dioxide, Dry chemical, Alcohol foam, Water spray

Media:

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

Hazardous Products of Carbon dioxide, Carbon monoxide

Combustion:

Potential for Dust Explosion: Not applicable.

Special Flammability Hazards: Material may burn, but does not ignite readily. Avoid high temperature.

9-11\* Acids Revision Date: 10 Jul 2017 RUC007 (ENG) page 3 of 7

### SAFETY DATA SHEET

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.

**Special Handling Equipment:** Not applicable.

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

Storage Precautions & Recommendations:

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Keep container closed when not in use.

Dangerous Incompatibility

Incompatible with oxidizing materials.

Reactions:

**Incompatibilities with Materials** 

None known

of Construction:

### 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.

9-11\* Acids Revision Date: 10 Jul 2017 RUC007 (ENG) page 4 of 7

#### SAFETY DATA SHEET

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Occupational Exposure Limit Not applicable

Monitoring Method: Not applicable

#### 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, face shield, impervious clothing and boots, if

conditions necessitate.

Respirator Caution: Observe OSHA regulations for respirator use (29 CFR 1910.134). 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 mm Hg @ 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: 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. **Oxidizing Properties:** Not an oxidizer.

9-11\* Acids Revision Date: 10 Jul 2017 RUC007 (ENG) page 5 of 7

## **SAFETY DATA SHEET**

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

**10.1. Reactivity** Not classified as dangerously reactive.

10.2. Chemical stability Stable

10.3. Possibility of hazardous reactions10.4. Conditions to avoidOxidizing materials

10.5. Incompatible materials Incompatible with oxidizing materials.

10.6. Hazardous decomposition 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

Acute Oral LD₅o: > 5000 mg/ kg Dehydrated castor oil fatty acids

Acute Dermal LD<sub>50</sub>: > 2000 mg/ kg Dehydrated castor oil fatty acids

Acute Inhalation LC<sub>50</sub>: > 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:** 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

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.

Additive or Synergistic effects: None known.

## **SECTION 12: Ecological information**

**12.1. Toxicity** No data available.

12.2. Persistence and degradability Readily biodegradable.

9-11\* Acids Revision Date: 10 Jul 2017 RUC007 (ENG)

page 6 of 7

### **SAFETY DATA SHEET**

12.3. Bioaccumulative potentialNo data available12.4. Mobility in soilNo data available12.5. Results of PBT and vPvB assessmentNo data available.12.6. Other adverse effectsNo data available.

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

#### 13.1. Waste treatment methods

US EPA Waste Number: Non-Hazardous

**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** Chemicals, n.o.s. (9-11\* Acids)

shipping name

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 Not listed. Japan: Korea: KE-14734 Australia: Listed China: 34474 Philippines: Listed Taiwan: Listed New Zealand: Listed

German Water Hazard No data available.

Classification:

SARA 313: Not listed

9-11\* Acids Revision Date: 10 Jul 2017 RUC007 (ENG) page 7 of 7

## SAFETY DATA SHEET

HMIS IV:



NFPA:



### 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.

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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