

Material Safety Data Sheet

1. Chemical Product and Company Information

Gulf Bayport Chemicals L.P.
9700 Bayport Blvd
Pasadena, Texas 77507
Information: 281-291-2300

24 Hour Emergency
Chemtrec: 1-800-424-9300

Chemical Name: Octenylsuccinic Anhydride Date of Issue: 12/17/04
Formula: $C_{12}H_{18}O_3$ Rev. Date: 10/16/09
Synonyms: 2,5 Furandione, dihydro-3-(octenyl)
2-Octen-1-ylsuccinic anhydride
Chemical Family: Organic Anhydrides

Section 2-Composition

<u>Components</u>	<u>Weight%</u>	<u>TWA/TLV</u>	<u>Cas No.</u>
2-Octen-1-ylsuccinic anhydride	>99	None est.	26680-54-6

Section 3-Hazards Identification

HMIS Hazard Rating	4=Extreme
Health 2	3=High
Fire 1	2=Moderate
Reactivity 0	1=Slight
	0=Least

Primary Routes of Exposure: Inhalation, Ingestion, Eye Contact, Skin Contact

Inhalation: Mists or vapors will most likely be irritating to the respiratory tract.

Ingestion: May cause irritation to the mouth, throat, and stomach and may cause vomiting, nausea and diarrhea.

Skin Contact: May cause moderate skin irritation. As with other anhydrides, repeated or prolonged contact may result in sensitization

Eye Contact: Direct contact with mists or liquid is moderately irritating to the eyes.

Material Safety Data Sheet

Octenylsuccinic anhydride(OSA)

Page 2 of 6

Section 4-First Aid Measures

- Eyes:** Flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get immediate medical attention. If physician not available, flush for additional 15 minutes and then transport victim to medical care.
- Skin:** Wash affected areas with plenty of water, and soap if available, for several minutes. Remove and clean contaminated clothing and shoes. Seek medical attention if irritation develops.
- Ingestion:** If swallowed, immediately give 3-4 glasses of water. DO NOT induce vomiting. If vomiting occurs, give fluids again. Get immediate medical attention..
- Inhalation:** Remove from area to fresh air. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available. Get immediate medical attention

Section 5-Fire Fighting Measures

- Extinguishing Media:** Foam, Dry Chemical, Water, Carbon Dioxide
- Special Fire Fighting Procedures:** Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.

Unusual Fire & Explosion Hazards: Products of combustion may be toxic.

Section 6-Accidental Release Measures

Caution! Floors may become slippery. Wear appropriate protective gear and NIOSH/MSHA approved respirator where mists or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred). Dike and contain spill with inert material (sand, earth, etc.). Transfer the liquid and solid separately to containers for recovery or disposal. Wet residue with water and absorb with inert material (sand, earth...) and transfer into appropriate containers for disposal. Keep spill out of sewers and open bodies of water.

Material Safety Data Sheet

Octenylsuccinic anhydride(OSA)

Page 3 of 6

Section 7-Handling and Storage

Handling: Wear personal protective equipment. Use adequate ventilation. Prevent release of mists and vapors into the workplace air. Wash hands thoroughly after handling this material and before eating, drinking or smoking.

Storage: Store in a cool, dry area. Keep containers closed when not in use.

Section 8-Exposure Control and Personal Protection

Ventilation Type: In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

Respiratory Protection: In processes where mists or vapors may be generated, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.

Protective Gloves: Rubber or plastic, when needed, to prevent skin contact.

Eye Protection: Wear chemical goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions.

Other Protective Equipment: Eye wash; safety shower; protective clothing, (long sleeves, coveralls or other, as appropriate), when needed, to prevent skin contact.

Section 9-Physical and Chemical Properties

Appearance: Clear, colorless liquid
Viscosity (Cp): 32
Molecular Weight: 210.27
Evap. Rate(Butyl Acetate=1): <1
Solubility in Water: slightly soluble with hydrolysis <0.026%
pH: Acidic
Odor: Slight
Boiling Point: 140-160°C @2.5 mm Hg
Vapor Density: >1
Vapor Pressure(mm Hg): <1

Material Safety Data Sheet

Octenylsuccinic anhydride(OSA)

Page 4 of 6

Section 9-Physical and Chemical Properties (cont.)

Percent Volatile (by weight)	Nil
Melting Point	8-12°C
Specific Gravity (H ₂ O=1)	1.01 @25°C
Flash Point	325°F (163°C)

Section 10- Stability and Reactivity Information

Chemical Stability:	Stable
Conditions to Avoid:	Moisture, heat
Incompatible Materials:	Strong bases, oxidizing agents
Decomposition Products:	Thermal decomposition may produce toxic organic vapors/fumes and oxides of carbon.
Hazardous Polymerization:	Will not occur

Section- 11 Toxicological Information

No Information found for this material. The information below is for the closely related compound, dodecenylsuccinic anhydride:

- dermal LD50 (rat): 6250 to 7500 mg/kg
- inhalation LC50: 1220 mg/m³/4 hours (RTECS)
- eye irritation (rabbit): irritant
- skin irritation (rabbit): irritant
- sensitization: sensitizer (Sax)

Carcinogen Status: NTP: No IARC:No OSHA: No

Section 12-Ecological Information

No information available. Do not allow the material to be released into the environment

Material Safety Data Sheet

Section 13-Disposal Information

Dispose of in compliance with all Federal, state and local laws and regulations.

Section- 14 Transportation Information

US Hazards Material Regulation DOT 49 CFR: Not Regulated

Section- 15 Regulatory Information

TSCA: All substances are listed on the TSCA inventory

Sara Title III

Section 302/304	Not Listed
Section 311/312	Acute
Section 313 Toxic Chemicals:	Not Listed
CERCLA RQ:	Not Listed
TSCA 12(b) Export Notification:	Not Listed
California Proposition 65:	Not Listed

European Regulations:

EINECS Number: Octenylsuccinic Anhydride: 247-899-8

Labeling according to EC directives

Symbol: Xi

Irritant



R-Phrases: R36/37/38

Irritating to eyes, respiratory system and skin

S-Phrases: S26-S36/37/38

Wear suitable protective clothing, gloves and eye/face protection. In case of contact with eyes, rinse immediately plenty of water and seek medical advice.

Material Safety Data Sheet

Octenylsuccinic anhydride(OSA)

Page 6 of 6

Canadian Regulations:

Octenylsuccinic Anhydride is listed on the DSL.

This product has been classified in accordance with the hazard criteria of the Controlled Products. Regulations and MSDS contains all the information required by the Controlled Products Regulations.

16. Other Information

MSDS Summary of Changes

01/09/09	Changed MSDS format	D.Greer
10/16/09	Added European regulations and Canadian regulations	D.Greer