



n-Octenylsuccinic Anhydride

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 10/19/2020

Supersedes: 06/25/2020

Version: 5.0

SECTION 1: Identification

1.1. Identification

Product form	: Substance
Substance name	: n-Octenylsuccinic Anhydride
Chemical name	: 3-(oct-2-en-1-yl)dihydrofuran-2,5-dione
CAS-No.	: 42482-06-4
Product code	: RUH027
Synonyms	: 2-Octenylsuccinic Anhydride; J-8; J-8N; n-OSA; OSA; 2,5-Furandione,dihydro-3-(2-octen-1-yl)-; Dihydro-3-octenyl-2,5-furandione
Other means of identification	: EC No.629-679-7; CAS-No. 26680-54-6

1.2. Recommended use and restrictions on use

Use of the substance/mixture	: Intermediate
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1.3. Supplier

Vertellus LLC dba Bercen Anhydrides
Route 611, P.O. Box 730
Delaware Water Gap, PA 18327, USA
T: +1-800-344-3426
SDS@Bercen.com

1.4. Emergency telephone number

Emergency number	: Bercen Anhydrides: +1-800-344-3426 CHEMTREC (USA): +1-800-424-9300 CHEMTREC (International):+1-703-527-3887 US National Poison Help: +1-800-222-1222
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SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture


GHS US classification

Acute toxicity (oral) Category 4	H302 Harmful if swallowed
Acute toxicity (dermal) Category 4	H312 Harmful in contact with skin
Skin corrosion/irritation Category 2	H315 Causes skin irritation
Serious eye damage/eye irritation Category 2	H319 Causes serious eye irritation
Skin sensitization, category 1A	H317 May cause an allergic skin reaction

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)	: 
Signal word (GHS US)	: Warning
Hazard statements (GHS US)	: H302+H312 - Harmful if swallowed or in contact with skin H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation
Precautionary statements (GHS US)	: P261 - Avoid breathing vapors. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell. P330 - Rinse mouth. P302+P352 - If on skin: Wash with plenty of water. P362+P364 - Take off contaminated clothing and wash it before reuse. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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contact lenses, if present and easy to do. Continue rinsing.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name	Product identifier	%	GHS US classification
n-Octenylsuccinic Anhydride (Main constituent)	(CAS-No.) 42482-06-4	≈ 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Get immediate medical advice/attention.
- First-aid measures after skin contact : Remove all contaminated clothing and footwear. Wash skin with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Get immediate medical advice/attention.
- First-aid measures after ingestion : Rinse mouth out with water. Do not induce vomiting. Immediately call a poison center or doctor/physician.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects : Causes serious eye irritation. Causes skin irritation. Harmful if swallowed. Harmful in contact with skin. May cause an allergic skin reaction.
- Chronic symptoms : No chronic health hazards are likely for this material.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Foam. Carbon dioxide (CO₂). Dry chemical.
- Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

5.2. Specific hazards arising from the chemical

- Fire hazard : Not flammable.
- Explosion hazard : Product is not explosive.
- Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Avoid contact with skin and eyes.
- Protection during firefighting : Wear recommended personal protective equipment. Complete protective clothing. Self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Ventilate spillage area. Mark out the contaminated area with signs and prevent access to unauthorized personnel.

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6.1.1. For non-emergency personnel

Emergency procedures : Do not get in eyes, on skin, or on clothing. Avoid breathing vapors. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Emergency procedures : Do not attempt to take action without suitable protective equipment.

6.2. Environmental precautions

Do not allow product to spread into the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Absorb spilled material with sand or earth. Shovel into suitable and closed container for disposal. Wash contaminated area with large amounts of water.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For waste disposal after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Avoid any direct contact with the product.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a closed container. Store in a well-ventilated place.

Incompatible products : Strong acids. Strong bases. Strong oxidizers. Amines.

Incompatible materials : None known.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide local exhaust or general room ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Chemical resistant gloves (according to European standard EN 374 or equivalent). Neoprene protective gloves. nitrile rubber gloves. Protective gloves made of PVC

Eye protection:

Chemical goggles or face shield

Skin and body protection:

Long sleeved protective clothing. Chemical resistant safety shoes

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear, pale yellow to pink liquid.

Color : pale yellow to pink

Odor : Slight

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Odor threshold	: No data available
pH	: Not applicable
Melting point	: 11 – 14 °C
Freezing point	: No data available
Boiling point	: 235 °C
Flash point	: 146 – 206 °C (Closed cup)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 43.5 Pa
Relative vapor density at 20 °C	: 7.3
Relative density	: No data available
Specific gravity / density	: 0.9633 g/ml (20°C)
Solubility	: Soluble in acetone. Soluble in cyclohexane. Soluble in dimethyl sulfoxide. Soluble in hexane. Water: 20 mg/l (20°C)
Partition coefficient n-octanol/water (Log Pow)	: 4.68 (22°C)
Auto-ignition temperature	: 349 – 352 °C
Decomposition temperature	: 235 °C
Viscosity, kinematic	: 45.676 mm ² /s
Viscosity, dynamic	: 44 cP (20°C)
Explosion limits	: No data available
Explosive properties	: Product is not explosive.
Oxidizing properties	: No.

9.2. Other information

Other properties : Hydrolysis in water.

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

10.4. Conditions to avoid

Overheating. Open flame. Water, humidity.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers. Amines.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Harmful in contact with skin.
Acute toxicity (inhalation)	: Based on available data, the classification criteria are not met

n-Octenylsuccinic Anhydride (42482-06-4)	
LD50 oral rat	1098 mg/kg (OECD 425 method)
LD50 dermal rat	> 1000 mg/kg (OECD 402 method)
LC50 Inhalation - Rat	> 5.3 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation. pH: Not applicable
Serious eye damage/irritation	: Causes serious eye irritation. pH: Not applicable

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Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: 45.676 mm ² /s
Symptoms/effects	: Causes serious eye irritation. Causes skin irritation. Harmful if swallowed. Harmful in contact with skin. May cause an allergic skin reaction.
Chronic symptoms	: No chronic health hazards are likely for this material.

SECTION 12: Ecological information

12.1. Toxicity

n-Octenylsuccinic Anhydride (42482-06-4)	
LC50 fish 1	> 100 mg/l
EC50 Daphnia 1	> 100 mg/l

12.2. Persistence and degradability

n-Octenylsuccinic Anhydride (42482-06-4)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

n-Octenylsuccinic Anhydride (42482-06-4)	
Partition coefficient n-octanol/water (Log Pow)	4.68 (22°C)
Bioaccumulative potential	No bioaccumulation.

12.4. Mobility in soil

n-Octenylsuccinic Anhydride (42482-06-4)	
Mobility in soil	low mobility

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose in a safe manner in accordance with local/national regulations.
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

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SECTION 15: Regulatory information

15.1. US Federal regulations

n-Octenylsuccinic Anhydride (42482-06-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA

n-Octenylsuccinic Anhydride (42482-06-4)

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

n-Octenylsuccinic Anhydride (42482-06-4)

Listed in the EC inventory

National regulations

n-Octenylsuccinic Anhydride (42482-06-4)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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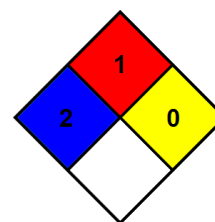
Full text of H-phrases:

H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Indication of changes:

CAS-No. Section 1. Section 3. Section 15: Regulatory information.

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SDS US (GHS HazCom 2012)

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