

**I. PRODUCT AND COMPANY IDENTIFICATION**

Company:	Natural Advantage, LLC	Address:	1050 Cypress Creek Road Oakdale, Louisiana 71463
Telephone:	318-215-1456	Fax:	318-335-1579
Product Name:	delta-Decalactone, Natural	Chemical Name:	5-Hydroxydecanoic Acid-lactone
Product Number:	NA2361	<b>EMERGENCY 24 HOUR</b> <b>CONTACT: ChemTrec 1-800-424-9300</b> <b>Contract # 219030</b>	

**II. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture

Classification according to Regulation 29 CFR 1910.1200  
 Not hazardous according to GHS.

<b>NFPA Hazard Rating:</b>	<b>Health: 0</b>	<b>Fire: 0</b>	<b>Reactivity: 0</b>
<b>Labeling according to Regulation 29 CFR 1910.1200:</b>	<b>Pictogram:</b> Information Not Available	<b>Signal word: Information Not Available</b> <b>Hazard statement:</b> Information Not Available	<b>Precautionary statements:</b> Information Not Available

**III. COMPOSITION/INFORMATION ON INGREDIENTS**

Product Name:	delta-Decalactone, Natural	Chemical Name:	5-Hydroxydecanoic Acid-lactone
Synonyms:	Decanolide-1,4; delta-n-Amyl-delta-valerolactone	CAS#:	705-86-2
Formula:	C <sub>10</sub> H <sub>18</sub> O <sub>2</sub>	EINECS#:	211-889-1
Molecular Wt.:	170.25 g/mol		

**IV. FIRST AID MEASURES**

Inhalation	Remove from the exposure to fresh air. Contact a physician as necessary. If breathing is irregular or has stopped, start resuscitation and administer oxygen if available.
Eye Contact	Flush immediately with clean water for at least 15 minutes. Contact a physician if irritation persists.
Skin Contact	Remove any contaminated clothing or shoes. Wash affected areas thoroughly with soap and water. If irritation persists, contact a physician.
Ingestion	Do NOT induce vomiting. Give water to dilute. Contact a physician immediately.

**V. FIRE-FIGHTING MEASURES**

Flashpoint (Method Used):	>100°C (>212°F)(CC)
Lower Flammable Limit (% by Volume):	Information Not Applicable
Upper Flammable Limit (% by Volume):	Information Not Applicable
Extinguishing Media:	Water spray, Alcohol-resistant foam, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving chemicals.
Unusual Fire and Explosion Hazards:	None
<b>NFPA Hazard Rating:</b>	<b>Health: 0</b> <b>Fire: 0</b> <b>Reactivity: 0</b>

**VI. ACCIDENTAL RELEASE MEASURES**

Steps to be taken in case material is released or spilled.	Eliminate all ignition sources. Ventilate area. Contain spill and recover free product. Report spill to appropriate authorities if required.
Waste Disposal Method	Place material into sealed containers and dispose of in accordance with current applicable laws and regulations.

**VII. PRECAUTIONS FOR SAFE HANDLING AND USE**

Precautions to be taken in handling and storing.	Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Contaminated clothing and shoes should be cleaned before re-use. Good manufacturing practices dictate that an eyewash fountain and/or safety shower should be available in the work area.
Other Precautions:	None.

**VIII. CONTROL MEASURES**

Occupational Exposure Limits:	Contains no substances with occupational exposure limit values.
Respiratory Protection:	None generally required. If desired use NIOSH approved respirator.
Ventilation:	Local exhaust meeting ACGIH criteria as needed.
Protective Gloves:	Use chemical resistant gloves.
Protective Eyewear:	Use splash goggles or face shield when eye contact might occur.
Other Protective Clothing or Equipment:	None required.

**IX. PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point:	117°C-120°C	Specific Gravity (H <sub>2</sub> O = 1):	0.962-0.982
Vapor Pressure (mm Hg):	Information Not Available	Flash Point:	>100°C (>212°F)
Vapor Density (AIR =1):	>1.0	Melting Point:	Information Not Available
Solubility in Water:	Insoluble	Evaporation Rate:	Information Not Available
pH:	Information Not Available	Color:	Colorless to Yellow
Flammability (solid, gas):	Information Not Available	Oxidizing properties:	Information Not Available
Upper/lower flammability or explosive limits:	Information Not Available	Odor:	Coconut, Peach
Autoignition temperature:	Information Not Available	Partition coefficient:	Information Not Available
Viscosity:	Information Not Available	Decomposition temperature:	Information Not Available
Appearance:	Clear Liquid	Explosive properties:	Information Not Available

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customerservice@natadv.com

**X. REACTIVITY DATA**

Stability:	Chemically Stable under recommended storage conditions.	Conditions to Avoid: Information Not Available
Incompatibility with other Substance (Materials to Avoid):	Strong oxidizing agents	
Hazardous Decomposition or Byproducts:	Carbon Oxides	
Hazardous Polymerization:	No	

**XI. TOXICOLOGICAL INFORMATION**

Acute toxicity: LD50-oral-rat->5,000 mg/kg LD50-dermal-rat->5,000 mg/kg Serious eye damage/eye irritation: Germ cell mutagenicity:  Specific target organ toxicity (single exposure):  Aspiration hazard: Carcinogenicity:	Mild irritation 24 h Information Not Available Information Not Available May be harmful	Skin corrosion/irritation: Mild skin irritation 24 h  Respiratory or skin sensitization: May be harmful Reproductive toxicity: Information Not Available  Specific target organ toxicity (repeated exposure): Information Not Available
delta-Decalactone is not listed as carcinogenic by IARC, ACGIH, NTP, or OSHA.		

**XII. ECOLOGICAL INFORMATION**

Toxicity:	Information Not Available	Persistence and Degradation:	Information Not Available
Bioaccumulative potential:	Information Not Available	Mobility in soil:	Information Not Available
PBT and vPvB assessment:	Information Not Available	Other adverse effects:	Information Not Available

**XIII. DISPOSAL CONSIDERATIONS**

Product:	Observe all federal, state, and local environmental regulations in disposing this material.
Contaminated packaging:	Dispose of as unused product.

**XIV. TRANSPORTATION INFORMATION**

DOT (US)	UN Number: Information Not Available	Class: Information Not Available	Packing Group: Information Not Available
Proper Shipping Name:	Information Not Available	Marine pollutant: No	Poison Inhalation Hazard: No

IMDG	UN Number: Information Not Available	Class: Information Not Available	Packing Group: Information Not Available
Proper Shipping Name:	Information Not Available	Marine pollutant: No	

IATA	UN Number: Information Not Available	Class: Information Not Available	Packing Group: Information Not Available
Proper Shipping Name:	Information Not Available		

**XV. REGULATORY INFORMATION**

OSHA Hazards	Not considered highly hazardous by OSHA.
US Federal	TSCA: CAS# 705-86-2 is listed on the TSCA Inventory California Prop. 65: This product does not contain any chemicals known to cause cancer, birth defects, or any other reproductive harm.
SARA 311/312	No SARA hazards.
Regulation	Complies with 29 CFR 1910.1200.

**XVI. OTHER INFORMATION**

MSDS Creation Date:	12/04/2010
MSDS Revision #:	3
Revision Date:	03/01/2018
Liability Statement:	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Natural Advantage, LLC shall not be held liable for any damage resulting from handling or from contact with the above product.