

MATERIAL SAFETY DATA SHEET

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SECTION 1 – CHEMICAL IDENTIFICATION

Trade Name:	ASA2024	Date of Issue:	March 11, 1999
Synonyms:	ASA2024	Revised Date:	March 16, 2006
Formula:	Mixture		
Chemical Family:	Anhydrides		
Chemical Use:	Chemical intermediate		
Telephone Number:	Information	(281) 474-3271	
Emergency Number:	Chemtrec	(800) 424-9300 Domestic	
		(703) 527-3887 International	
HMIS Hazard Rating		4 = Extreme	
Health: 2		3 = High	
Fire: 1		2 = Moderate	
Reactivity: 1		1 = Slight	
PPE rating to be supplied by user depending on use conditions.		0 = Least	

SECTION 2 – HAZARDS IDENTIFICATION

Inhalation: May cause mucous membrane and respiratory tract irritation. May cause respiratory tract sensitization.

Skin Contact: May cause slight to moderate irritation. Not expected to be absorbed in acutely toxic amounts. Prolonged or repeated contact may cause defatting and drying of the skin resulting in skin irritation and dermatitis. May cause skin sensitization.

Eye Contact: May cause slight to moderate irritation.

Ingestion: May cause slight to moderate irritation.

SECTION 3 – COMPOSITION

<u>Components</u>	<u>Percentage</u>	<u>TLV (ppm)</u>	<u>CAS #</u>
Mixed C20-C24 alkenylsuccinic anhydrides	>90	Not Established	70983-53-8
Eicosene	<10	Not Established	27400-78-8
Docosene	<10	Not Established	29730-67-4
Tetracosene	<10	Not Established	36731-16-5

SECTION 4 – FIRST AID MEASURES

- Inhalation: Remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, administer artificial respiration. Get medical attention.
- Skin Contact: Immediately remove contaminated clothing and shoes. Wipe excess material from skin and flush with water for at least 15 minutes. Use soap if available or follow by washing with soap and water. Do not reuse contaminated clothing without laundering. Get medical attention.
- Eye Contact: Immediately flush with plenty of water for at least 15 minutes. Get medical attention.
- Ingestion: Get medical attention immediately.

SECTION 5 – FIREFIGHTING MEASURES

- Extinguishing Media: Use water, foam, dry chemical, or carbon dioxide (CO₂).
- Special Firefighting Procedures/Precautions: Firefighters should wear NIOSH approved self-contained breathing apparatus. Responders should wear protective clothing to prevent skin contact. Move containers from fire area. If unable to move, cool sealed containers with water.
- Unusual Fire and Explosion Information: This material reacts with water or steam to form alkenylsuccinic acid. This reaction is slightly exothermic. It should not present any problems if large quantities of water are used.
- Environmental Note: Prevent runoff from entering waterways or sewers.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Protective Measures: Evacuate area of unprotected personnel. Eliminate sources of ignition. Wear personal protective equipment (See section 8) when responding to spills.

Spill Management: Stop source of leak if safe to do so. Dike and contain spill. Use vacuum truck or pump to storage/salvage vessels. Clean up residue with an absorbent such as clay, sand or other suitable material and dispose of properly. Spray area with water to remove trace residue. Contain runoff from residue flush and dispose of properly. Prevent entry into waterways, sewer, or confined areas. Remove contaminated trace residues from soil and dispose of in same manner as material. For small spills, clean up residue with an absorbent such as clay, sand or other compatible material. Place in an appropriate container and dispose of material properly.

Disposal: Proper disposal should be evaluated based on regulatory status of this material (refer to section 13).

SECTION 7 – HANDLING AND STORAGE

Containers should be grounded and/or bonded when material is transferred. Store in a cool, dry place. Keep away from heat, sparks, and flames.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory Protection: NIOSH approved respiratory protection for organic vapors.

Ventilation:	Utilize local exhaust to control vapors. Do not rely on general exhaust.
Protective Gloves:	Utilize appropriate impervious chemical gloves.
Eye Protection:	Chemical goggles and face shield.
Other Protective Equipment:	Wear additional protective clothing to prevent skin contact. This may include aprons, chemical resistant boots, and chemical resistant suits.
Work Practices:	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work using plenty of soap and water.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Not Established
Molecular Weight:	Varies
Melting Point:	Not Established
Volatility/Vol (%):	Not Established
Vapor Pressure (mm Hg):	Not Established
Vapor Density (Air = 1):	Not Established
Solubility in H ₂ O:	Reacts slowly with water.
Appearance/Odor:	Amber colored liquid with a mild odor.
Odor Threshold	Not Established
Specific Gravity (H ₂ O = 1):	0.925 @ 77° (25°C)
Evap. Rate (Butyl Acetate = 1):	<1
Flash Point:	>425°F (218°C) PMCC, ASTM D93
Lower Explosive Limit:	Not Established
Upper Explosive Limit:	Not Established

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Conditions to Avoid:	Incompatible materials.
Incompatible Materials:	Alkaline substances. Water affects product quality. Reacts slowly with water to form the diacid.
Decomposition Products:	Oxides of carbon. Decomposition will occur at temperatures above 425°F (220°C).
Hazardous Polymerization:	Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

The toxicological effects of this compound have not been thoroughly investigated.

Carcinogenicity listed by: NTP: No IARC: No OSHA: No

ACGIH	Mixed C20-C24	TLV:	Not Established	STEL:	Not Established
	alkenylsuccinic anhydrides				
	Eicosene	TLV:	Not Established	STEL:	Not Established
	Docosene	TLV:	Not Established	STEL:	Not Established
OSHA	Tetracosene	TLV:	Not Established	STEL:	Not Established
	Mixed C20-C24	PEL:	Not Established	STEL:	Not Established
	alkenylsuccinic anhydrides				
	Eicosene	PEL:	Not Established	STEL:	Not Established
	Docosene	PEL:	Not Established	STEL:	Not Established
	Tetracosene	PEL:	Not Established	STEL:	Not Established

SECTION 12 – ECOLOGICAL INFORMATION

No data available.

SECTION 13 – DISPOSAL INFORMATION

Place in a city, state, or federally permitted disposal facility. Handle in accordance with all applicable regulations.

SECTION 14 – TRANSPORTATION INFORMATION

US DOT:

Proper Shipping Name:	Not hazardous for transport.
Primary Hazard Class:	Not Applicable.
Secondary Hazard Class:	Not Applicable.
Identification Number:	Not Applicable.
Packing Group:	Not Applicable.
Reportable Quantity:	Not Applicable.
Marine Pollutant:	Not Applicable.
Label(s) Required:	Not Applicable.

SECTION 15 – REGULATORY INFORMATION

TSCA: All substances are listed on, or are exempt from reporting.

SARA Hazard Notification:

Hazard Categories Under Title III:	Acute.
Section 302 Extremely Hazardous Substances:	Not Listed.
Section 313 Toxic Chemicals:	Not Listed.
CERCLA RQ:	Not Listed.

TSCA 12(b) Export Notification: Not Listed
 California Proposition 65: Not Listed

European Regulations:

Not listed on EINECS.

Canadian Regulations:

ASA2024 is listed on the NDSL. Mixed C20-24 Olefins is not listed.

Japanese Regulations:

Not listed on the ENCS.

Australian Regulations:

Not listed on the AICS.

Korean Regulations:

Not listed on the ECL.

SECTION 16 – OTHER INFORMATION

PPE Codes (NPCA-HMIS)

A – Glasses

B – Glasses, Gloves

C – Glasses, Gloves, Apron

D – Faceshield, Gloves, Apron

E – Glasses, Gloves, Dustmask

F – Glasses, Gloves, Apron, Dust Respirator

G – Glasses, Gloves, Vapor Respirator

H – Goggles, Gloves, Apron, Vapor Respirator

I – Glasses, Gloves, Dust/Vapor Respirator

J – Goggles, Gloves, Apron, Dust/Vapor Respirator

K – Supplied Air, Gloves, Full Protective Suit, Boots

Disclaimer

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