

SAFETY DATA SHEET

SECTION 1 – CHEMICAL IDENTIFICATION

Trade Name:	ECA 300D	Date of Issue:	June 16, 1987
Formula:	C ₉ H ₁₀ O ₃ , C ₁₀ H ₁₂ O ₃	Revised Date:	June 4, 2012
Chemical Family:	Alicyclic Anhydride		
Telephone Number:	Information	(281) 474-3271	
Emergency Number:	Chemtrec	(800) 424-9300	

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 – COMPOSITION

<u>Components</u>	<u>Percentage</u>	<u>TLV</u>	<u>CAS #</u>
Methylhexahydrophthalic anhydride	>87	N.E.	25550-51-0
Methyltetrahydrophthalic anhydride	>7	N.E.	34090-76-1

Note: N.E. = Not Established N/A = Not Applicable

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a solid, white flakes with no odor. **Health Hazard:** This product may cause severe irritation to nose, throat and lungs. May cause severe skin irritation. Contact with moist skin may cause burns. Eye contact may cause severe irritation. Ingestion may cause irritation of the mouth, throat and gastrointestinal tract. **Flammability Hazards:** This product has a flash point of 300°F **Reactivity Hazards:** This material reacts with water to form acids. **Environmental Hazards:** Harmful to aquatic organisms, may use long-term adverse effects in the aquatic environment. **Emergency Considerations:** Emergency responders must wear the proper personal protective equipment (and have appropriate fire suppression equipment) suitable for the situation to which they are responding.

US DOT SYMBOLS

Non-Regulated

CANADA (W HMIS) SYMBOLS

Not Controlled

EUROPEAN and
(GHS) Hazard Symbols



Signal Word: **Danger!**

EU LABELING AND CLASSIFICATION:

Classification of the substance or mixture according to Index#: 607-241-00-6 and 607-240-00-0 and 607-102-00-X
Hazard Statement(s):

H317: May cause an allergic skin reaction
 H318: Causes serious eye damage
 H334: May cause allergy or asthma symptoms or breathing difficulty if inhaled

Regulation (EC) No127212008

Precautionary Statement(s):

P260: Do not breathe dust/fume/gas/mist/vapors/spray.
 P271: Use only in well ventilated area.
 P273: Avoid release to the environment
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P314: Get medical advice/attention if you feel unwell

Hazard Classification:

[Xi] Irritant

Risk Phrases:

R41: Risk of serious damage to eyes
 R42/43: May cause sensitization by inhalation and skin contact
 R52: Harmful to aquatic organisms,

Safety Phrases:

S22: Do not breathe dust
 S24: Avoid contact with skin
 S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
 S37/39: Wear suitable gloves and eye/face protection S61: Avoid release to the environment.

Eye Contact: May cause severe irritation, redness, pain, blurred vision, and tearing. Corneal injury and burns are also possible.

Skin Contact: May cause severe irritation and pain. Contact with moist skin may cause burns. May cause skin sensitization. May aggravate pre-existing skin disorders.

Inhalation: May cause respiratory tract irritation, sneezing, and coughing. May cause respiratory tract sensitization. May aggravate pre-existing respiratory disorders. Chronic exposure may cause bronchitis and asthma.

Ingestion: May cause burns of the mouth, throat, and gastrointestinal tract.

SECTION 3 – COMPOSITION

<u>Components</u>	<u>Percentage</u>	<u>TLV</u>	<u>CAS #</u>	<u>EINECS</u>	<u>REACH</u>
Methyltetrahydrophthalic anhydride	<7	N.E.	34090-76-1	251-823-9	05-2114267244-50-XXXX
Methylhexahydrophthalic anhydride	>87	N.E.	25550-51-0	247-094-1	05-2114267228-44-XXXX

SECTION 4 – FIRST AID MEASURES

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. 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. If irritation persists, seek medical advice.

Inhalation: Remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, administer artificial respiration. 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 methyltetrahydrophthalic acid and methylhexahydrophthalic acid. This reaction is slightly exothermic. It should not present any problems if large quantities of water are used.

Environmental Note: N/A.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Contain and recover. Prevent from entering sewers and waterways. Clean-up personnel should wear protective equipment to prevent contact.

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:	284°C
Melting Point:	N.E.
Volatility/Vol (%):	N.E.
Vapor Pressure (mm Hg):	N.E.
Vapor Density (Air = 1):	>1
Solubility in H ₂ O:	Reacts slowly with water.
Appearance/Odor:	Clear to light yellow liquid with faint characteristic odor.
Specific Gravity (H ₂ O = 1):	1.152 +/- 0.015 @ 25°C
Evap. Rate (Butyl Acetate = 1):	<1
Flash Point:	329°F (165°C) PMCC, ASTM D93
Lower Explosive Limit:	N.E.
Upper Explosive Limit:	N.E.
Autoignition Temperature:	N.E.

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Conditions to Avoid:	N/A.
Incompatible Materials:	Water, alcohols, acids, bases, and oxidizers.
Decomposition Products:	Oxides of carbon. Occurs above 220°C.
Hazardous Polymerization:	Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

ACGIH	Methyltetrahydrophthalic anhydride	TLV:	N.E.	STEL:	N.E.
	Methylhexahydrophthalic anhydride	TLV:	N.E.	STEL:	N.E.
OSHA	Methyltetrahydrophthalic anhydride	PEL:	N.E.	STEL:	N.E.
	Methylhexahydrophthalic anhydride	PEL:	N.E.	STEL:	N.E.

Ingestion:	methyltetrahydrophthalic anhydride: LD50: 2140 mg/kg (rat)	AIHAAP 30, 470, 69
Dermal:	methyltetrahydrophthalic anhydride: LDLo: 1410 mg/kg (rabbit)	AIHAAP 30, 470, 69

Please note that the toxicological effects for methyltetrahydrophthalic anhydride presented in this MSDS are for CAS Registration Number 26590-20-5 which is isomer nonspecific.

The toxicological effects of methylhexahydrophthalic anhydride have not been thoroughly investigated. Hexahydrophthalic anhydride, a chemical similar to methylhexahydrophthalic anhydride, has an oral LD50 of 3307 mg/kg in rats and a dermal LD50 of >2000 mg/kg in rabbits.

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

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

DOT Shipping Name: Not hazardous per DOT guidelines.

SECTION 15 – REGULATORY INFORMATION

U.S. Regulations:

TSCA: All components are listed on the TSCA inventory.

SARA TITLE III

Acute: Yes
Chronic: Yes
Fire: No
Reactivity: Yes
Pressure: No

TSCA 12(b) Export Notification: Not Listed

California Proposition 65: Not Listed

European Regulations:

EINECS Number: Methyltetrahydrophthalic Anhydride: 251-823-9

Methylhexahydrophthalic Anhydride: 247-094-1



Signal Word: **DANGER!**

Hazard Statement(s):

H319: May cause an allergic skin reaction

H320: Causes serious eye damage

H334: May cause allergy or asthma symptoms or breathing difficulty if inhaled

Regulation (EC) No1272/2008

Precautionary Statement(s):

- P260: Do not breathe dust/fume/gas/mist/vapors/spray.
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Canadian Regulations:

All components are listed on the DSL.

Japanese Regulations:

All components are listed on the ENCS.

ENCS Number:	Methyltetrahydrophthalic Anhydride:	3-2451X (unlisted chemical name)
	Methylhexahydrophthalic Anhydride:	3-2450

Australian Regulations:

Methyltetrahydrophthalic anhydride and methylhexahydrophthalic anhydride are not listed on the AICS.

Korean Regulations:

All components are listed on the ECL.

ECL Number:	Methyltetrahydrophthalic Anhydride:	KE-33481
	Methylhexahydrophthalic Anhydride:	KE-18585

SECTION 16 – OTHER INFORMATION

PPE Codes (NPCA-HMIS)

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|--------------------------------------|--|
| A – Glasses | G – Glasses, Gloves, Vapor Respirator |
| B – Glasses, Gloves | H – Goggles, Gloves, Apron, Vapor Respirator |
| C – Glasses, Gloves, Apron | I – Glasses, Gloves, Dust/Vapor Respirator |
| D – Faceshield, Gloves, Apron | J – Goggles, Gloves, Apron, Dust/Vapor Respirator |
| E – Glasses, Gloves, Dustmask | K – Supplied Air, Gloves, Full Protective Suit, Boots |

Disclaimer

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