

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: EF® Activator 64	Product Type: Activator
Company: Hernon Manufacturing, Inc. 121 Tech Drive Sanford, FL 32771	Contact Information: Telephone: 407-322-4000 Emergency Telephone: 800-255-3924 Web Site: www.hernon.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Liquid
Color: Light Green
Odor: Aliphatic

HMIS:
HEALTH: 2*
FLAMMABILITY: 3
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

WARNING:

*Indicates possible chronic health effects
FLAMMABLE LIQUID AND VAPOR
CAUSES EYE AND SKIN IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.
MAY CAUSE RESPIRATORY TRACT IRRITATION.
MAY BE HARMFUL IF SWALLOWED.

Primary Routes of Entry: Skin, Inhalation, Eyes, Ingestion

Signs and Symptoms of Exposure:

Inhalation: May cause respiratory tract irritation. Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Skin contact: Irritating to skin. Solvent action can dry and defat the skin, causing the skin to crack, leading to dermatitis.

Eye contact: Vapors may irritate eyes. Contact with eyes will cause irritation.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Existing Conditions Aggravated by Exposure: Eye, skin, and respiratory disorders.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Acetone	70-100	500 ppm TWA 750 ppm STEL	1000 ppm TWA	None
Aldehyde-amine condensation	20-30	None	None	None

4. FIRST AID MEASURES

Ingestion: If ingested, induce vomiting. Keep individual calm. Obtain medical attention.

Inhalation: Remove to fresh air. If symptoms develop and persist, get medical attention.

Skin Contact: Wash with soap and water.

Eye Contact: Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash Point (TCC):	-20°C (-4°F)
Recommended Extinguishing Agents:	Carbon dioxide, foam, dry chemical
Special Firefighting Procedures:	Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.
Hazardous Combustion Products:	Oxides of carbon. Oxides of nitrogen.
Unusual Fire or Explosion Hazards:	Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back.
Flammable/Explosive Limits – lower %:	2.6%
Flammable/Explosive Limits – upper %:	13%

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear proper protective equipment
Measures for Environmental Protection:	Do not allow entry into drains or surface waters
Clean-up Measures:	Ensure adequate ventilation. Soak up with inert absorbent. Keep in suitable and closed containers for disposal.

7. HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. During use and until all vapors are gone: Keep area ventilated - do not smoke; extinguish all flames, pilot lights, and heaters; turn off stoves, electrical tools and appliances, and any other sources of ignition.
Storage:	Store away from heat, sparks, flames, or other sources of ignition. Store at or below 49°C (120°F) unless otherwise labeled to preserve shelf life.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye/Face Protection:	Safety glasses or goggles with side shields
Skin Protection:	Use rubber or plastic gloves, and protective clothing as necessary
Respiratory Protection:	Use NIOSH approved respirator if there is a potential to exceed exposure limits
Engineering Controls:	Forced ventilation may be required if concentrations exceed exposure limits

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Light Green
Odor:	Aliphatic
Vapor Pressure:	231 mm Hg at 25°C
Vapor Density:	2.0 (Air = 1)
Solubility in Water:	Immiscible
Specific Gravity:	0.75
Boiling Point:	56.5°C (133°F)
Volatile Organic Compound Content	100%

Evaporation Rate (Ether = 1) Not available
 pH: Does not apply

10. STABILITY AND REACTIVITY

Stability: Stable
 Hazardous Polymerization: Will not occur
 Hazardous Decomposition Products: No data available
 Incompatibility: Acids, oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Ingredients:	Literature Referenced Target Organ and Other Health Effects	Carcinogen Status		
		NTP	IARC	OSHA
Acetone	CNS IRR BLO	NO	NO	NO
Aldehyde-amine condensation	No data	NO	NO	NO

Abbreviations:

ALG Allergen **BLO** Blood **BRA** Brain **CNS** Central Nervous System
IRR Irritant **KID** Kidney **LIV** Liver **SPL** Spleen

12. ECOLOGICAL INFORMATION

Ecological Information: Not available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Dispose of according to Federal, State and Local regulations.
 EPA Hazardous Waste Number: D001: Ignitable.

14. TRANSPORTATION INFORMATION

U.S. Dept. of Transportation Ground (49 CFR):

Proper Shipping Name: Acetone
 Hazard Class or Division: 3
 Identification Number: UN 1090
 Packing group: II
 Exceptions: Consumer Commodity ORM-D (Not more than 1 Liter)

International Air Transportation (ICAO/IATA):

Proper Shipping Name: Acetone
 Hazard Class or Division: 3
 Identification Number: UN 1090
 Packing group: II
 Exceptions: May Qualify as Consumer Commodity ID8000 (Not more than 500 ml)

Water Transportation (IMO/IMDG):

Proper Shipping Name:	Acetone
Hazard Class or Division:	3
Identification Number	UN 1090
Packing group:	II
Marine pollutant:	None
Exceptions:	Dangerous goods in limited quantities of class 3 (Not more than 1 liter)

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory
CERCLA/SARA 313:	This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372): None
California Proposition 65:	This product contains the following chemicals known to the state of California to cause cancer, birth defects, and/or other reproductive harm - None.
REACH regulation 67/548/EEC	This product contains the following toxic chemicals subject to the reporting requirements of REACH: Acetone

16. OTHER INFORMATION

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