

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: EF® Accelerator 48	Product Type: Accelerator
Company : Hernon Manufacturing, Inc. 121 Tech Drive Sanford, FL 32771	Contact Information: Telephone: 407-322-4000 Emergency Telephone: 800-255-3924 Web Site: www.hernonmfg.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Isopropyl Alcohol	80-100	200 ppm TWA 400 ppm STEL	400 ppm TWA 980 mg/m³ TWA	None
Glycol Ether	5-10	100 ppm TWA 150 ppm STEL, Skin	100 ppm TWA	None
N, N-Dialkyltoluidines	1-3	None	None	None
Antioxidant	1-3	None	None	10mg/m³ TWA

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Liquid
Color: Clear
Odor: Alcohol

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

WARNING: FLAMMABLE LIQUID AND VAPOR
MAY CAUSE 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

Signs and Symptoms of Exposure:

Inhalation: May cause respiratory tract irritation.

Skin contact: May cause allergic skin reaction. May cause skin irritation.

Eye contact: Contact with eyes will cause irritation.

Ingestion: May be harmful if swallowed.

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

4. FIRST AID MEASURES

Ingestion: Do not 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. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.
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): 54°F
Recommended Extinguishing Agents: Alcohol-resistant foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Special Firefighting Procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Hazardous Combustion Products: Oxides of carbon.
Unusual Fire or Explosion Hazards: Carbon monoxide may be evolved if incomplete combustion occurs. The vapour is heavier than air, spreads along the ground and distant ignition is possible.
Flammable/Explosive Limits – lower %: 2% - Isopropyl Alcohol
Flammable/Explosive Limits – upper %: 12% - Isopropyl Alcohol

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with spilled or released material. Immediately remove all contaminated clothing. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Monitor area with combustible gas indicator.
Measures for Environmental Protection: Do not allow entry into drains or surface waters
Clean-up Measures: For small liquid spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation.
Storage: Store in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Store between 46° and 82°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:	Clear
Odor:	Alcohol
Vapor Pressure:	33 mm at 70°F
Vapor Density:	2.1
Solubility in Water:	95-100%
Specific Gravity:	0.80
Boiling Point:	180°F
Volatile Organic Compound Content	789 g/L
Evaporation Rate (Ether = 1)	1.5
pH:	Does not apply

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous Polymerization:	Will not occur
Hazardous Decomposition Products:	Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.
Incompatibility:	Strong oxidizers, acids

11. TOXICOLOGICAL INFORMATION

Ingredients:	Literature Referenced Target Organ and Other Health Effects								Carcinogen Status		
	ALG	BLO	CNS	IRR	KID	LIV	BRA	SPL	NTP	IARC	OSHA
Isopropyl Alcohol	ALG	BLO	CNS	IRR	KID	LIV	BRA	SPL	NO	NO	NO
Glycol Ether		IRR	KID	LIV					NO	NO	NO
N, N-Dialkyltoluidines	No data								NO	NO	NO
Antioxidant	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

Water Hazard: Do not allow entry into drains or surface waters

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: Isopropanol Solution
Hazard Class or Division: 3
Identification Number: UN 1219
Packing group: II

International Air Transportation (ICAO/IATA):

Proper Shipping Name: Isopropanol Solution
Hazard Class or Division: 3
Identification Number: UN 1219
Packing group: II

Water Transportation (IMO/IMDG):

Proper Shipping Name: Isopropanol Solution
Hazard Class or Division: 3
Identification Number: UN 1219
Packing group: II
Marine pollutant: No

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

16. OTHER INFORMATION

Prepared By: Jerry Litteral
Title: Director - Quality & Development

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