

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Adhesion Promoter 42C	Product Type: Concentrate for Adhesion Promoter 42
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: Colorless
 Odor: Odorless

HMIS:
 HEALTH: 3
 FLAMMABILITY: 1
 PHYSICAL HAZARD: 1
 Personal Protection: See Section 8

WARNING: HARMFUL IF SWALLOWED
 CORROSIVE TO SKIN AND EYES
 MAY CAUSE SEVERE EYE, AND SKIN IRRITATION.
 MAY CAUSE SEVERE RESPIRATORY TRACT IRRITATION.

Primary Routes of Entry: Skin, Ingestion, Eyes

Signs and Symptoms of Exposure:

Inhalation: May cause respiratory tract burns. May cause nose, throat, and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.

Skin contact: Harmful in contact with skin. Causes skin burns. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Eye contact: Corneal edema may give rise to a perception of "blue haze" or "fog" around lights. Exposed individuals may see rings around bright lights. This effect is temporary and has no known residual effect. Product vapor can cause glaucopsia (corneal edema) when absorbed into the tissue of the eye from the atmosphere. Causes eye burns. May cause blindness. Severe eye irritation.

Ingestion: Harmful if swallowed. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Existing Conditions Aggravated by Exposure: Eye disease Skin disorders and Allergies. Asthma.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Bicyclic Amidine	100	None	None	None

4. FIRST AID MEASURES	
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Prevent aspiration of vomit. Turn victim's head to the side.
Inhalation:	If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.
Skin Contact:	Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing.
Eye Contact:	Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.
5. FIRE FIGHTING MEASURES	
Flash Point (TCC):	> 200°F
Recommended Extinguishing Agents:	Alcohol-resistant foam, carbon dioxide (CO ₂), dry chemical, dry sand, limestone powder.
Special Firefighting Procedures:	Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.
Specific Hazards:	Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces obnoxious and toxic fumes. Downwind personnel must be evacuated.
Flammable/Explosive Limits – lower %:	Not available
Flammable/Explosive Limits – upper %:	Not available
6. ACCIDENTAL RELEASE MEASURES	
Personal Precautions:	Wear suitable protective clothing, gloves and eye/face protection. Use selfcontained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.
Measures for Environmental Protection:	Do not allow entry into drains or surface waters
Clean-up Measures:	Soak up with an inert absorbent and place in an appropriate chemical waste container.
7. HANDLING AND STORAGE	
Handling:	Avoid contact with skin and eyes. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Use only in well- ventilated areas. Avoid contact with eyes. Avoid breathing vapors and/or aerosols. Use personal protective equipment. When using, do not eat, drink or smoke.
Storage:	Do not store near acids. Store in steel containers preferably located outdoors, above ground, and surrounded by dikes to contain spills or leaks. Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye/Face Protection: Full face shield with chemical resistant goggles underneath.
Skin Protection: Butyl, nitrile, or neoprene impervious gloves. The breakthrough time of the selected glove(s) must be greater than the intended use period.
Respiratory Protection: Wear appropriate respirator when ventilation is inadequate.
Engineering Controls: Forced ventilation may be required if concentrations exceed exposure limits

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: Colorless
Odor: Odorless
Vapor Pressure: Less than 1.30 mm Hg at 70°F
Vapor Density: Not available
Solubility in Water: Completely
Specific Gravity: 1.04
Boiling Point: > 300°F
Volatile Organic Compound Content Not available
Evaporation Rate (Ether = 1) Not available
pH: > 12.50

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Hazardous Decomposition Products: Nitric acid, ammonia, nitrogen oxides, carbon monoxide, carbon dioxide. Nitrogen oxide can react with water vapors to form corrosive nitric acid.
Incompatibility: Organic acids (i.e. acetic acid, citric acid etc.), mineral acids, sodium hypochlorite, oxidizing agents. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

11. TOXICOLOGICAL INFORMATION

Ingredients:	Literature Referenced Target Organ and Other Health Effects	Carcinogen Status		
		NTP	IARC	OSHA
Bicyclic Amidine	EYE SKI RES	NO	NO	NO

Abbreviations:

EYE Eye **SKI** Skin **RES** Respiratory

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects:

Aquatic toxicity: LC50 (96 h) : 100 - 220 mg/l Species : Golden orfe (Leuciscus idus).
EC50 (48 h) : 50 mg/l Species : Daphnia

Toxicity to other organisms: 330 mg/l Species : Toxicity to bacteria

Persistence and Degradability:

Biodegradability: According to the results of tests of biodegradability this product is not readily biodegradable.

Chemical Oxygen Demand (COD): 230 mg/l

Mobility: No data available

Bioaccumulation: No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Dispose of according to Federal, State and Local regulations.

EPA Hazardous Waste Number: D002

14. TRANSPORTATION INFORMATION

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

Proper Shipping Name Amines, liquid, corrosive, n.o.s. (Diazabicyclo(5.4.0) UNDEC-7-ENE, 1,8-(DBU))

Hazard Class or Division: 8

Identification Number UN2735

Packing group: III

International Air Transportation (ICAO/IATA):

Proper Shipping Name: Amines, liquid, corrosive, n.o.s. (Diazabicyclo(5.4.0) UNDEC-7-ENE, 1,8-(DBU))

Hazard Class or Division: 8

Identification Number UN2735

Packing group: III

WaterTransportation (IMO/IMDG):

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (Diazabicyclo(5.4.0) UNDEC-7-ENE, 1,8-(DBU))

Hazard Class or Division: 8

Identification Number UN2735

Packing group: III

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 312: Acute health hazard.

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

International Regulatory Information

WHIMS: Class D Division 2B, Class E corrosive.

Inventory Status: All components are listed on the following inventories: European Economic Community (EINECS); Australia (AICS); Japan (MITI); Philippines (PICCS); South Korea (ECL); China (SEPA).

16. OTHER INFORMATION

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DISCLAIMER: Some of the information presented is from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.