MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 1 Flammability = 0 Reactivity = 0
HMIS RATING: Health = 1 Flammability = 0 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (0539E)

Manufacturer's Name: HILLYARD INDUSTRIES
Address: 302 North Fourth Street
St. Joseph, MO 64501

Product Name: **CONTENDER FINISH (PART A)**
Date Prepared: April 17, 2006
Prepared by: Regulatory Affairs Department

Emergency Telephone No.: (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)

Other information calls: (816) 233-1321 (Ext. 8285)
http://www.hillyard.com

SECTION II -- INGREDIENTS/IDENTITY INFORMATION

Components

(Specific Chemical Identity: Common Name(s))	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Propylene glycol monomethyl ether(1)	107-98-2	100 ppm	100 ppm	N/A	9-14%
Water	7732-18-5	none	none	N/A	---
Aminated acrylic polymer-chloride and bromide salt	103051-70-3	none	none	N/A	---
Leveling agents	Unknown to Hillyard	none	none	N/A	---

(1) Regulated by OSHA, FL, IL, LA, MA, NJ, PA, RI

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: corr. 195°F
Specific Gravity (H_2O = 1): 25ºC = 1.04
Vapor Pressure (mm Hg.): 17.4
Percent Volatile by Volume (%): 74.2
Vapor Density (AIR = 1): 0.9
Evaporation Rate (ethyl ether = 1): slower than 1
Solubility in Water: appreciable
Appearance and Odor: straw colored liquid; ammonical odor

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: None (T.C.C.) **Flammable Limits:** LEL = not determined UEL = not applicable
Extinguishing Media: Carbon dioxide, dry chemical, fog or water spray.
Special Fire Fighting Procedures: Self-contained breathing apparatus with full facepiece operated in pressure demand or other pressure mode.
Unusual Fire and Explosion Hazards: May form carbon dioxide and carbon monoxide.

SECTION V -- PHYSICAL HAZARDS

Stability: Stable **Conditions to Avoid:** N/A
Incompatibility (Materials to Avoid): Fire and excess heat; strong acids
Hazardous Decomposition Products or Byproducts: Carbon monoxide, carbon dioxide and products of combustion of organic material.
Hazardous Polymerization: Will not occur **Conditions to Avoid:** N/A

SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? Yes Ingestion? No

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Eye irritant. Prolonged exposure to skin may cause discomfort and dermatitis. Causes nose and throat irritation. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
2. Reports have associated repeated and prolonged occupational overexposure to solvent with permanent brain and nervous system damage.

Chemical listed as Carcinogen or Potential Carcinogen:
National Toxicology Program = No **I.A.R.C. Monographs =** No **OSHA =** No
This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

SECTION VI -- HEALTH HAZARD DATA cont.

Signs and Symptoms of Exposure: Eye irritation. Vapor harmful - may affect the brain or nervous system causing dizziness, headache or nausea. Product is not a primary skin irritant per Federal Hazardous Substance Act, CFR 15 Chapter IIc, Paragraph 1500.41 and 1500.42. Overexposure to propylene glycol monomethyl ether may cause mild eye, nose and throat irritation; headache, nausea and Central Nervous System depression.

Medical Conditions Generally Aggravated by Exposure: None known to Hillyard.

Emergency and First Aid Procedures: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. In case of eye contact immediately flush with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If swallowed, do not induce vomiting. Call a physician immediately.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: If spilled contain spilled material and remove with inert absorbent. Do not let spilled or leaking material enter watercourse.

Waste Disposal Method: Collect absorbent/spilled mixture into plastic containers. Dispose of contaminated absorbent, container and unused contents in accordance with federal, state and local regulations.

Precautions To Be Taken In Handling And Storing: Keep containers closed tightly when not in use. Store in cool, well ventilated areas away from heat and out of direct sunlight. Protect from freezing.

Other Precautions: Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. USE ONLY WITH ADEQUATE VENTILATION. Do not breathe vapors or spray mist. **Ensure fresh air entry during application and drying.** If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use. Close container after each use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not take internally. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR Part 372.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): If sprayed, use respirator MESA/NIOSH approved for mist and organic vapor. None normally needed.

Ventilation:

Local Exhaust = N/A **Mechanical (General) =** Adequate ventilation required **Special =** N/A **Other =** N/A

Protective Gloves: Rubber or neoprene gloves **Eye Protection:** None normally needed

Other Protective Clothing or Equipment: To prevent repeated or prolonged contact, wear impervious clothing and boots.

Work / Hygienic Practices: Wash hands before eating or using washroom.

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations: 49 CFR = no; **IMCO =** no; **IATA =** no.

Proper shipping name: Varnish

UN No.: not applicable; **Limited Qty.:** not applicable; **Hazard Class:** not applicable.

Labels required: not required **DOT Exception:** not applicable

EPA Hazardous waste number / code: not listed

Hazardous waste characteristics:

Ignitability = not applicable; **Corrosivity =** not applicable; **Reactivity =** not applicable.

DISCLAIMER OF WARRANTIES

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET.

The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate.

THE BUYER OR USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE, MISUSE OR DISPOSAL OF THIS PRODUCT. THE BUYER OR USER IS RESPONSIBLE TO COMPLY WITH ALL FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING THE USE, MISUSE OR DISPOSAL OF THESE PRODUCTS.

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 1 Flammability = 0 Reactivity = 0
HMIS RATING: Health = 1 Flammability = 0 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (0539E)

Manufacturer's Name: HILLYARD INDUSTRIES
Address: 302 North Fourth Street, St. Joseph, MO 64501
Product Name: CONTENDER FINISH (PART B)
Date Prepared: April 17, 2006
Prepared by: Regulatory Affairs Department
Emergency Telephone No.: (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)
Other information calls: (816) 233-1321 (Ext. 8285)
http://www.hillyard.com

SECTION II -- INGREDIENTS/IDENTITY INFORMATION

Components (Specific Chemical Identity: Common Name(s))	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Water	7732-18-5	none	none	N/A	---
Reaction products of Epichlorohydrin and Bisphenol A	25085-99-8	none	none	N/A	---
Diepoxide Pyrol	Unknown to Hillyard Ind.	none	none	N/A	---
Gamma-butyrolactone (1)	96-48-0	none	none	N/A	4-8
Epichlorohydrin-Polyglycol Reaction Product	26142-30-3	none	none	N/A	---
Benzyl alcohol (2)	100-51-6	not established	not established	N/A	1-5

(1) Regulated by TX.
(2) Regulated by FL, PA, TX.

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: corr. 204ºF
Specific Gravity (H_2O = 1): 25ºC = 1.08
Vapor Pressure (mm Hg.): 17.4
Percent Volatile by Volume (%): 0.52
Vapor Density (AIR = 1): 0.8
Evaporation Rate (ethyl ether = 1): slower than 1
Solubility in Water: appreciable
Appearance and Odor: white emulsion

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: None (T.C.C.) **Flammable Limits:** LEL = not determined UEL = N/A
Extinguishing Media: Carbon dioxide, dry chemical, fog or water spray
Special Fire Fighting Procedures: Self-contained breathing apparatus with full facepiece operated in pressure demand or other pressure mode.
Unusual Fire and Explosion Hazards: May form carbon dioxide and carbon monoxide.

SECTION V -- PHYSICAL HAZARDS

Stability: Stable **Conditions to Avoid:** N/A
Incompatibility (Materials to Avoid): Fire and excess heat; strong acids
Hazardous Decomposition Products or Byproducts: Carbon monoxide, carbon dioxide and products of combustion of organic material.
Hazardous Polymerization: Will not occur **Conditions to Avoid:** N/A

SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? Yes Ingestion? Yes

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Prolonged skin exposure may cause mild irritation.
2. Epoxy resins are capable of causing sensitization of skin; sensitivity varies from person to person.

Chemical listed as Carcinogen or Potential Carcinogen:
National Toxicology Program = No **I.A.R.C. Monographs =** No **OSHA =** No
This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

SECTION VI -- HEALTH HAZARD DATA cont.
Signs and Symptoms of Exposure: Prolonged exposure may cause skin irritation.
Medical Conditions Generally Aggravated by Exposure: Epoxy resins are capable of causing sensitization of skin; sensitivity varies from person to person.
Emergency and First Aid Procedures: In case of contact immediately wash skin with soap and water. Remove contaminated clothing and wash clothing before reuse; if symptoms occur call a physician.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE
Steps To Be Taken In Case Material Is Released Or Spilled: Dike spill area and add absorbent earth, sand or sawdust to spilled liquid. Keep out of sewers.
Waste Disposal Method: Collect absorbent/spilled mixture into metal containers. Dispose of in accordance with local, state and federal regulations. Incinerate in approved facility.
Precautions To Be Taken In Handling And Storing: Keep containers closed tightly when not in use. Store in cool, well ventilated areas away from heat and out of direct sunlight. Protect from freezing.
Other Precautions: Avoid prolonged breathing of vapor or spray mist. Avoid prolonged or repeated contact with skin. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR Part 372.

SECTION VIII -- CONTROL MEASURES
Respiratory Protection (Specify Type): If sprayed, use respiratory MESA/NIOSH approved for mist and organic vapor. None normally needed.
Ventilation:
Local Exhaust = N/A **Mechanical (General) =** Adequate ventilation required **Special =** N/A **Other =** N/A
Protective Gloves: Rubber gloves suggested **Eye Protection:** None normally needed
Other Protective Clothing or Equipment: To prevent repeated or prolonged contact, wear impervious clothing and boots.
Work / Hygienic Practices: Wash hands before eating or using washroom.

SECTION IX - TRANSPORTATION INFORMATION
Applicable regulations: 49 CFR = no; **IMCO =** no; **IATA =** no.
Proper shipping name: Varnish.
UN No.: not applicable; **Limited Qty.:** not applicable; **Hazard Class:** not applicable.
Labels required: not required **DOT Exception:** not applicable
EPA Hazardous waste number / code: not listed
Hazardous waste characteristics:
Ignitability = not applicable; **Corrosivity =** not applicable; **Reactivity =** not applicable.

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MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 1 Flammability = 0 Reactivity = 0
HMIS RATING: Health = 1 Flammability = 0 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (0539E)

Manufacturer's Name: HILLYARD INDUSTRIES
Address: 302 North Fourth Street
St. Joseph, MO 64501

Product Name: **CONTENDER FINISH (PARTS A & B)**
Date Prepared: April 17, 2006
Prepared by: Regulatory Affairs Department

Emergency Telephone No.: (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)

Other information calls: (816) 233-1321 (Ext. 8285)
http://www.hillyard.com

SECTION II -- INGREDIENTS/IDENTITY INFORMATION

Components (Specific Chemical Identity: Common Name(s)	**CAS#**	**OSHA PEL**	**ACGIH TLV**	**OTHER LIMITS RECOMMENDED**	**%**
Propylene glycol monomethyl ether (1)	107-98-2	100 ppm	100 ppm	N/A	7-10
Water	7732-18-5	none	none	N/A	---
Aminated acrylic polymer-chloride and bromide salt	103051-70-3	none	none	N/A	---
Leveling agents	Unknown to Hillyard	none	none	N/A	---
Reaction products of Epichlorohydrin and Bisphenol A	25085-99-8	none	none	N/A	---
Diepoxide Pyrol	Unknown to Hillyard	none	none	N/A	---
Gamma-butyrolactone(2)	96-48-0	none	none	N/A	1-4
Epichlorohydrin-Polyglycol Reaction Product	26142-30-3	none	none	N/A	---

(1) Regulated by OSHA, FL, IL, LA, MA, NJ, PA, RI (2) Regulated by TX. VOC = less than 275 gm./l.

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: corr. 203°F
Specific Gravity (H_2O = 1): 25ºC = 1.05
Vapor Pressure (mm Hg.): 17.2
Percent Volatile by Volume (%): average 72.4
Vapor Density (AIR = 1): 0.6
Evaporation Rate (ethyl ether = 1): slower than 1
Solubility in Water: appreciable
Appearance and Odor: white, opaque liquid

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: None (T.C.C.)
Flammable Limits: LEL = not determined UEL = N/A
Extinguishing Media: Carbon dioxide, dry chemical, fog or water spray
Special Fire Fighting Procedures: Self-contained breathing apparatus with full facepiece operated in pressure demand or other pressure mode.
Unusual Fire and Explosion Hazards: May form carbon dioxide and carbon monoxide.

SECTION V -- PHYSICAL HAZARDS

Stability: Stable
Conditions to Avoid: N/A
Incompatibility (Materials to Avoid): Fire and excess heat; strong acids
Hazardous Decomposition Products or Byproducts: Carbon monoxide, carbon dioxide and products of combustion of organic material.
Hazardous Polymerization: Will not occur
Conditions to Avoid: N/A

SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? Yes Ingestion? No

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Eye irritant. Prolonged exposure to skin may cause discomfort and dermatitis. Causes nose and throat irritation. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
2. Reports have associated repeated and prolonged occupational overexposure to solvent with permanent brain and nervous system damage. Epoxy resins are capable of causing sensitization of skin; sensitivity varies from person to person.

Chemical listed as Carcinogen or Potential Carcinogen:
National Toxicology Program = No **I.A.R.C. Monographs =** No **OSHA =** No
This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

SECTION VI -- HEALTH HAZARD DATA cont.

Signs and Symptoms of Exposure: Product is not a primary eye or skin irritant per Federal Hazardous Substance Act, CFR 16, Chapter IIc, Paragraph 1500.41 and 1500.42. Overexposure to propylene glycol monomethyl ether may cause mild eye, nose and throat irritation; headache, nausea and Central Nervous System depression.

Medical Conditions Generally Aggravated by Exposure: None known to Hillyard.

Emergency and First Aid Procedures: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. In case of eye contact immediately flush with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If swallowed, do not induce vomiting. Call a physician immediately.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: If spilled contain spilled material and remove with inert absorbent. Do not let spilled or leaking material enter watercourse.

Waste Disposal Method: Collect absorbent/spilled mixture into plastic containers. Dispose of contaminated absorbent, container and unused contents in accordance with federal, state and local regulations.

Precautions To Be Taken In Handling And Storing: Keep containers closed tightly when not in use. Store in cool, well ventilated areas away from heat and out of direct sunlight. Protect from freezing.

Other Precautions: Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. USE ONLY WITH ADEQUATE VENTILATION. Do not breathe vapors or spray mist. **Ensure fresh air entry during application and drying.** If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use. Close container after each use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not take internally. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR Part 372.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): If sprayed, use respirator MESA/NIOSH approved for mist and organic vapor. None normally needed.

Ventilation:

Local Exhaust = N/A **Mechanical (General) =** Adequate ventilation required **Special =** N/A **Other =** N/A

Protective Gloves: Rubber or neoprene gloves **Eye Protection:** None normally needed

Other Protective Clothing or Equipment: To prevent repeated or prolonged contact, wear impervious clothing and boots.

Work / Hygienic Practices: Wash hands before eating or using washroom.

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations: 49 CFR = no; **IMCO =** no; **IATA =** no.

Proper shipping name: Vanish

UN No.: not applicable; **Limited Qty.:** not applicable; **Hazard Class:** not applicable.

Labels required: not required **DOT Exception:** not applicable

EPA Hazardous waste number / code: not listed

Hazardous waste characteristics:

Ignitability = not applicable; **Corrosivity =** not applicable; **Reactivity =** not applicable.

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