

# Hostmann-Steinberg



U.S. Version

## Material Safety Data

Information on this form is proprietary and furnished solely for the use of our customers. This information applies only to wet, bulk ink.		<b>HAZARD RATINGS</b>			
		HEALTH...1	FLAMMABILITY ...1	REACTIVITY ....0	
		minimal..0	slight..1	moderate..2	serious..3 severe..4
<b>SECTION 1 - PRODUCT INFORMATION</b>					
<b>PRODUCT GROUP:</b>	Inkredible Maxxima Process Series - Yellow, Magenta, Cyan and Black				
<b>IDENTIFICATION CODES:</b>	41 F 50 MX, 42 F 50 MX, 43 F 50 MX, 49 F 50 MX				
<b>MANUFACTURER: (CORPORATE)</b>	Hostmann-Steinberg Limited 12 Shaftsbury Lane, Brampton, Ontario, Canada, L6T 3X7 For Emergencies & Information call: 905-793-9970				
<b>SECTION 2 - HAZARDOUS INGREDIENTS</b>					
INGREDIENT	C.A.S. NUMBER	CONCENTRATION	EXPOSURE LIMITS ACGIH TLV OSHA PEL		
Hydrotreated Petroleum Distillates	-	See section 10	5 mg/m <sup>3</sup> < mist > 5 mg/m <sup>3</sup>		
<b>SECTION 3 - PHYSICAL DATA</b>					
<b>BOILING POINT</b>	> 464 F	<b>APPEARANCE</b>	paste		<b>EVAPORATION</b>
<b>MELTING POINT</b>	not available	<b>ODOR</b>	oleoresinous		<b>RATE</b>
<b>VAPOR DENSITY</b>	> air	<b>VAPOR PRESSURE</b>	0.05mm @ 70 F		<b>SOLUBILITY</b>
					Slower than butyl acetate Negligible in water
<b>SECTION 4 - FIRE &amp; EXPLOSION DATA</b>					
<b>FLAMMABILITY</b>	Not combustible or flammable under normal operating conditions			<b>FLASH POINT</b>	>212 F (PMCC)
<b>UPPER EXPLOSION LIMIT</b>	6.0 Vol %		<b>LOWER EXPLOSION LIMIT</b>	0.6 Vol %	
<b>EXTINGUISHING MEDIA</b>	Foam, carbon dioxide, dry powder, water fog.				
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b>	May emit dense smoke if ignited. Vacuum cans may explode if exposed to extreme heat, use water spray to cool cans and prevent pressure build-up.				
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	Wear adequate respiratory protection. Dense smoke may be generated if product is exposed to extreme heat.				
<b>SECTION 5 - REACTIVITY DATA</b>					
<b>STABILITY</b>	Stable		<b>CONDITIONS TO AVOID</b>	not applicable	
<b>INCOMPATIBLE WITH</b>	oxidizers, mineral acids				
<b>HAZARDOUS POLYMERIZATION</b>	will not occur		<b>CONDITIONS TO AVOID</b>	not applicable	
<b>HAZARDOUS DECOMPOSITION OR BYPRODUCTS</b>	Burning may emit CO, CO <sub>2</sub> , and organic vapours				
<b>SECTION 6 - PRODUCT TOXICOLOGICAL PROPERTIES</b>					
<b>ROUTE OF ENTRY</b>	skin contact, eye contact		<b>IRRITANCY</b>	slight	
<b>EXPOSURE LIMITS</b>	not determined		<b>SENSITIZATION</b>	Not applicable	
<b>CARCINOGENICITY</b>	none known for lithographic paste ink mixtures				
<b>EFFECTS OF ACUTE EXPOSURE TO MATERIAL</b>	NTP - no IARC - no OSHA - no Excessive inhalation of vapor may cause headaches, dizziness, drowsiness and nausea.				
<b>EFFECTS OF CHRONIC EXPOSURE TO MATERIAL</b>	Prolonged or repeated skin contact may cause slight irritation.				
<b>EFFECT ON EXISTING MEDICAL CONDITIONS</b>	May aggravate existing dermatitis or other skin problems.				
<b>SECTION 7 - FIRST AID MEASURES</b>					
<b>EYES</b>	Flush with water for 15 minutes, see a physician.				
<b>SKIN</b>	Wash with soap and water, remove contaminated clothing.				
<b>INHALATION</b>	Remove to fresh air, assist with breathing if required, call a physician if breathing does not improve.				
<b>INGESTION</b>	Do not induce vomiting, drink plenty of water, call a physician (contains petroleum distillates).				
<b>SECTION 8 - PREVENTIVE MEASURES</b>					
<b>PERSONAL PROTECTIVE EQUIPMENT</b>					
<b>GLOVES</b>	Optional (plastic or vinyl)		<b>CLOTHING</b>	Do not wash with domestic laundry.	
<b>EYE</b>	Optional (Chemical goggles)		<b>RESPIRATORY</b>	Not required.	
<b>ENGINEERING CONTROLS</b>	General ventilation if local ventilation is not available.				

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<b>LEAK &amp; SPILL PROCEDURES</b>	Remove sources of ignition, ventilate area, scrape up with ink knives. Clean with approved cleaner. Discharge to navigable waterways or shorelines resulting in a visible surface sheen is prohibited and reportable under Section 311(b) (3) of the Federal Water Pollution Control Act (40 CFR 110).
<b>WASTE DISPOSAL</b>	Liquid Industrial Waste - Dispose according to local, state and federal regulations.
<b>HANDLING &amp; STORAGE</b>	Store sealed container away from heat, sparks and open flames. Wash hands thoroughly before eating, smoking or using toilet facilities.
<b>OTHER PRECAUTIONS</b>	For industrial use only. Do not take internally. Do not transfer to unmarked containers.
<b>SECTION 9 - COMPLIANCE INFORMATION</b>	
<b>European Union</b>	
<b>94/62/EC DIRECTIVE last amended by 2005/20/EC Directive</b>	These products do not contain Cadmium, Lead, Mercury or Hexavalent Chromium at levels above the 100 ppm total concentration. No heavy metals are deliberately added during manufacture..
<b>2002/95/EC DIRECTIVE (RoHS) as amended by 2005/618/EC</b>	Directive does not apply to packaging, only to electrical and electronic equipment. Lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls and polybrominated diphenyl ethers are not deliberately added during manufacture. Incidental levels of lead, mercury, hexavalent chromium, polybrominated biphenyls and polybrominated diphenyl ethers are below the 0.1 wt% level; cadmium is below the 0.01 wt% level.
<b>DIRECT FOOD CONTACT</b>	These products are not recommended for direct food contact. An impermeable barrier must be placed between the printed surface and the foodstuff.
<b>EN 71-3:1994 / A1:2000</b>	These products do not contain lead, antimony, arsenic, barium, cadmium, chromium, mercury or selenium at concentrations greater than the listed limits.
<b>REACH (SVHC)</b>	These products do not contain chemicals listed on the Substances of Very High Concern list, January 13, 2010.
<b>REGULATION 304/2003/EC, as amended BY REGULATION 775/2004/EC</b>	These products do not intentionally contain chemicals listed in Annex 1.
<b>U.K REGULATION 2003 No. 1941</b>	These products do not intentionally contain chemicals listed in Annex 1.
<b>United States</b>	
<b>16 CFR 1303</b>	Regulations state that printed inks are not included in the scope. These products do not contain lead above the listed limit. Lead is not deliberately added during manufacture.
<b>ASTM F 963-03</b>	These products do not contain lead, antimony, arsenic, barium, cadmium, chromium, mercury or selenium at concentrations greater than the listed limits.
<b>CALIFORNIA PROPOSITION 65</b>	These products do not contain listed chemicals. If Carbon black is present, it is in a bound form and is not respirable.
<b>TOXICS IN PACKAGING LEGISLATION (C.O.N.E.G.) / CALIFORNIA ASSEMBLY BILL 2202</b>	These products do not contain Cadmium, Lead, Mercury or Hexavalent Chromium at levels above the 100 ppm total concentration. No heavy metals are deliberately added during manufacture.
<b>DIRECT FOOD CONTACT</b>	These products are not recommended for direct food contact. An impermeable barrier must be placed between the printed surface and the foodstuff.
<b>O.S.H.A.</b>	Does not contain hazardous ingredients as outlined in Regulation 29 CFR 1910.1200 (f)
<b>T.S.C.A.</b>	All components are either listed or are non-hazardous as outlined in the TSCA inventory (EPA-Toxic Substances Control Act.)
<b>U.S. CLEAN AIR ACT (1990)</b>	These products do not contain nor are manufactured using any of Class I or Class II ozone depleting chemicals.
<b>SARA SECTION 313 TOXIC CHEMICALS (40 CFR 372)</b>	None listed.

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CHEMICALS OF CONCERN	
Isopropylthioxanthone (ITX)	Not deliberately added during the manufacture of these products.
2,4-Pentanedione	Not deliberately added during the manufacture of these products.
Titanium Acetyl Acetone (TAA)	Not deliberately added during the manufacture of these products.
Perfluorooctanoic acid (PFOA)	Not deliberately added during the manufacture of these products.
Perfluorooctanesulfonate (PFOS)	Not deliberately added during the manufacture of these products.
Perfluorinated Surfactants (PFT)	Not deliberately added during the manufacture of these products.
4-methylbenzophenone (4MBP)	Not deliberately added during the manufacture of these products.
Benzophenone	Not deliberately added during the manufacture of these products.

Currently not registered to the NAPIM BRC Labelling Program	COMPOSITION INFORMATION	
	INK CODE	VOC (wt%)
	41 F 50 MX	16
	42 F 50 MX	17
	43 F 50 MX	12
	49 F 50 MX	5

All Values have been calculated from formula weights. Values are in weight %.

The chemicals listed in the "composition information" are non-hazardous. This information is provided to assist users of Hostmann-Steinberg inks in completing environmental reports.

# MATERIAL SAFETY DATA SHEET

Revision Date: March 23, 2009

Preparation Date: October 13, 2010

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer:** ACTEGA Kelstar, Inc.  
1050 Taylors Lane  
Cinnaminson, NJ 08077  
(856) 829-6300

**Emergency Phone:** Chemtrec Phone: (800) 424-9300

**Product Name:** STARKOTE AQ-120

**Generic Name:** AQ Gloss Coating

## SECTION 2 - COMPOSITION (Hazardous Ingredients)

The components listed below are identified as hazardous chemicals based upon the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS #	Weight %	OSHA PEL	ACGIH TLV-TWA
Sodium Dioctylsulfosuccinate	577-11-7	1 – 5	Not Established	Not Established
Ammonium Hydroxide	1336-21-6	0 – 1	50 ppm	25 ppm

The amount of Ammonium Hydroxide reported in Section 2 is calculated to be the excess neutralizer after creation of the polymer solution.

## SECTION 3 - HAZARDS IDENTIFICATION

### \*\*\* EMERGENCY OVERVIEW \*\*\*

Form: Liquid  
Color: Milky White  
Odor: Slight Ammonia

Avoid prolonged and/or repeated contact with the skin  
Use with local exhaust ventilation  
Wear full face shield if splashing hazard exists  
Wear protective clothing

**\*\*\* POTENTIAL HEALTH EFFECTS \*\*\***

Skin contact is expected to be the primary route of occupational exposure. The following statements are based on an assessment of the health effects associated with the ingredients present in this product.

<b>Eye Contact:</b>	Contact with eyes may cause mild irritation. Symptoms may include stinging, tearing, redness, swelling and/or burning.
<b>Skin Contact:</b>	Prolonged and/or repeated contact with skin may cause mild irritation. Symptoms may include redness, itching, drying and cracking of the skin.
<b>Inhalation:</b> Higher	Inhalation is an unlikely route of exposure under conditions of intended use.  temperatures may generate vapors that may cause irritation of the eyes and respiratory tract.
<b>Ingestion:</b>	Ingestion is an unlikely route of exposure under conditions of intended use. Deliberate ingestion of excessive quantities may be harmful.
<b>Chronic Health Hazard:</b>	No chronic health hazards are associated with the components present in this product. This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater.

<b>SECTION 4 – FIRST AID MEASURES</b>
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<b>Eye Contact:</b>	Wash with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Seek immediate medical attention if irritation or redness persists.
<b>Skin Contact:</b>	Remove contaminated clothing and wash with soap and water. Solvents should not be used to clean skin because of increased penetration potential. Seek immediate medical attention if irritation persists. Wash clothing and thoroughly clean shoes before reuse.
<b>Inhalation:</b>	Move to fresh air. Seek immediate medical attention if breathing difficulties develop.
<b>Ingestion:</b>	Never give anything by mouth to an unconscious person. Rinse mouth and then drink plenty of water. Do not induce vomiting, seek immediate medical attention.
<b>Note to physician:</b>	Treat according to symptoms (decontamination, vital functions), no known specific antidote.

<b>SECTION 5 – FIRE FIGHTING MEASURES</b>
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<b>Flash Point (°F):</b>	>200°F (Closed Cup)
<b>Flash Point Category (OSHA/NFPA):</b>	IIIB
<b>Hazardous Products of Combustion:</b>	Carbon monoxide (CO); carbon dioxide; oxides of nitrogen and sulfur
<b>Extinguishing Media:</b>	Water spray, dry extinguishing media, foam
<b>Unusual Fire and Explosion Hazards:</b>	The container may burn and leak in the heat of a fire.

**Fire Fighting Procedures:** The use of self-contained breathing apparatus is recommended for firefighters. Cool containers and use caution when approaching or handling fire-exposed containers.

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Precautions in Case of Release or Spill:** Keep unnecessary personnel away from spill area. Ventilate area of spill. Use appropriate personal protective equipment. Soak up small spill with inert material (if large spill, dike area). Pick up bulk of spill and containerize for recovery or disposal. Wash spill area with strong detergent and water. Keep all materials out of drains, sewers or waterways.

**Waste Disposal Method:** Dispose of product in accordance with local, county, state and federal regulations.

### SECTION 7 – HANDLING AND STORAGE

**Handling and Storage:** The slight ammonia smell can become stronger if the coating will be heated higher than room temperature. It is recommended that containers of these products be stored at temperatures between 40°F and 115°F (4.5C – 45C).

**Protection Against Fire & Explosion:** Take precautionary measures against static discharges.

**Other Precautions:** Protect from freezing.  
Use and store the product with adequate ventilation.  
Close container after each use.

### SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTIONS

#### ENGINEERING MEASURES

Provide readily accessible eye wash stations and safety showers.  
Provide adequate general and/or local exhaust ventilation.

#### PERSONAL PROTECTIVE EQUIPMENT

**Respiratory Protection:** No special requirements under conditions of intended use. General room ventilation is adequate. If this material is handled at elevated temperatures, under mist forming conditions or in confined areas where high exposure situations may exist, a NIOSH/MSHA approved respiratory protection equipment should be used.

**Skin Protection:** Use impervious gloves when handling. Use a chemical resistant apron and face shield if a splash hazard exists.

**Eye Protection:** Safety glasses, full face shield or chemical safety goggles is recommended to prevent eye contact. Eye protection should meet the specifications of ANSI Z87.1

#### Exposure Guidelines

<u>Component</u>	<u>OSHA – PEL</u>	<u>ACGIH TLV – TWA</u>	<u>ACGIH – STEL</u>
Sodium Dioctylsulfosuccinate	Not Established	Not Established	Not Established
Ammonium Hydroxide	50 ppm	25 ppm	35 ppm

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Milky White Liquid
<b>Odor:</b>	Slight Ammonia
<b>Boiling Point (°F):</b>	212°F
<b>Flash Point (°F):</b>	>200°F
<b>VOC (Lbs/Gal):</b>	0.06
<b>% VOC by Weight:</b>	0.64%
<b>pH:</b>	8.8-9.4
<b>Vapor Density:</b>	Not Available
<b>Evaporation Rate:</b>	Not Available
<b>Specific Gravity:</b>	1.04 g/mL
<b>Lbs. Per Gallon:</b>	8.70

### SECTION 10 – STABILITY AND REACTIVITY

<b>Stability:</b>	Normally stable under normal conditions of storage and intended use.
<b>Conditions to Avoid:</b>	Avoid excessive heat (>140°F) and sources of ignition. Avoid storage below 40°F (4.5C) and above 115°F (45C).
<b>Incompatibility:</b>	Keep away from strong acids.
<b>Hazardous Decomposition Products:</b>	Carbon dioxide and carbon monoxide, smoke, oxides of nitrogen.

### SECTION 11 – TOXICOLOGICAL INFORMATION

Information pertaining to the health effects and toxicity of the "pure" form of the hazardous components identified in Section 2 is presented below. This information reflects the known hazards associated with the component and may not reflect that of the purchased material due to concentration (dilution) effects. Review and interpretation by your Hazard Communication Department is recommended.

#### **Sodium Dioctylsulfosuccinate**

Oral:	LD50: 1900 mg/kg (rat)
Draize Test, Skin:	10mg/24H Moderate (rabbit)
Draize Test, Eye:	1% Severe (rabbit)
Inhalation:	No information available

#### **Ammonium Hydroxide**

Oral:	LD50: 350mg/kg (rat)
Skin Irritant:	Severe irritant (rabbit)
Eye Irritant:	Severe irritant (rabbit)
Carcinogenicity:	Not listed by ACIGH, IARC, NIOSH, NTP, or OSHA

### SECTION 12 – ECOLOGICAL INFORMATION

Information pertaining to the ecological fate of the "pure" form of the hazardous components identified in Section 2 is presented below. This information reflects the known hazards associated with the component and may not

reflect that of the purchased material due to concentration (dilution) effects. Review and interpretation by your Hazard Communication Department is recommended.

**Sodium Dioctylsulfosuccinate**

No information available.

**Ammonium Hydroxide**

Fish: Rainbow trout: LC50: 0.008 mg/L; 24hr

Fish: Fathead minnow: LC50: 8.2 mg/L; 24hr

Water Flea: Daphnia: EC50: 0.66 mg/L; 48hr

**SECTION 13 – DISPOSAL CONSIDERATIONS**

Dispose of product in accordance with local, county, state and federal environmental regulations. Do not introduce this product directly into public sewer systems.

Since emptied containers may retain product residues, all hazard precautions given in this data sheet should be observed.

**SECTION 14 – TRANSPORTATION INFORMATION**

**US DOT Proper Ship Name (ground):** Resin compounds, liquid

**Class** Not applicable

**UN ID** Not applicable

**Packing Group** Not applicable

**IMDG Proper Ship Name (ocean):** Resin compounds, liquid

**Class** Not applicable

**UN ID** Not applicable

**Packing Group** Not applicable

**ICAO/IATA Proper Ship Name (air):** Resin compounds, liquid

**Class** Not applicable

**UN ID** Not applicable

**Packing Group** Not applicable

**TDG Proper Ship Name (ground):** Resin compounds, liquid

**Class** Not applicable

**UN ID** Not applicable

**Packing Group** Not applicable

**SECTION 15 – REGULATORY INFORMATION**

**Toxic Substances Control Act (TSCA)**

The chemical components of this product are listed or have been registered for inclusion on the Section 8(B) Chemical Substance Inventory List (40 CFR 710).

**EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level:**

This product contains the following chemicals in quantities which must be reported under the supplier notification requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986:

<u>Chemical Name</u>	<u>CAS Number</u>
Ammonium Hydroxide	1336-21-6

**CERCLA Reportable Quantities**

(Components present which could require reporting under CERCLA 40 CFR 302.4)

<u>Chemical Name</u>	<u>CAS Number</u>	<u>CERCLA RQ</u>
Ammonium Hydroxide	1336-21-6	1000 LBS

**California Proposition 65**

This product does not contain any chemicals which are defined by the state of California to cause cancer and/or reproductive toxicity.

**Clean Air Act Amendment (HAPs)**

This product does not contain any chemicals which are defined as Hazardous Air Pollutants under Title III of the Clean Air Act Amendments of 1990.

**CONEG**

This product is certified to be in full compliance with CONEG Model Toxics Legislation for packaging and packaging components.

**Canadian WHMIS Classification**

(Components present listed in the WHMIS hazardous ingredient disclosure list)

<u>Chemical Name</u>	<u>CAS Number</u>
Ammonium Hydroxide	1336-21-6

**SECTION 16 – OTHER INFORMATION**
**Controlled Products Regulations (CPR)**

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

**Product Use:** Aqueous coating for graphic arts

**Reason for revision:** MSDS Review

	Health	Fire	Reactivity
<b>Suggested NFPA Rating</b>	1	0	0
<b>Suggested HMIS Rating</b>	1	0	0

**DISCLAIMER:** The information in this document is believed to be correct as of the date issued. However, no warranty expressed or implied has been made regarding the accuracy or completeness of this information. The information presented in this data sheet represents a compilation of information generated from our suppliers and other recognized sources of scientific evidence and chemical information. Since the conditions of handling and use of this material are beyond our control, ACTEGA Kelstar, Inc. shall not be liable for any injury, loss, or damage direct, incidental or consequential, arising out of the use or inability to use this product. The seller and / or manufacturer's only obligations shall be to replace the product if it is defective, and shall not be liable for more than the cost of the product. Before using, the user shall determine the suitability of the product for its intended use, and assumes all risk and liability whatsoever in connections with the use of said product. The foregoing warranties are in lieu of all other warranties, written, oral, expressed, or implied. No other warranty is made concerning the suitability of this product. The foregoing warranties may not be altered except by an agreement signed by the officers of the seller and / or manufacturer.