



**Akron Coating & Adhesives**  
**365 Stanton Ave.**  
**Akron, Ohio 44301**  
**Phone: 330-724-4716 FAX: 330-724-5923**

**MATERIAL  
SAFETY DATA**

EMERGENCY PHONE : 1-330-329-0098

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THIS PRODUCT MAY BE CONSIDERED TO BE A HAZARDOUS CHEMICAL UNDER THAT STANDARD. (REFER TO THE OSHA CLASSIFICATION IN SEC I.) THIS INFORMATION IS REQUIRED TO BE DISCLOSED FOR SAFETY IN THE WORKPLACE. THE EXPOSURE TO THE COMMUNITY, IF ANY, IS QUITE DIFFERENT

**I – PRODUCT IDENTIFICATION**

Product Name:	<b>ACA-10-101</b>
Synonyms:	Water Based Matte Black Heat Resistant Coating
Chemical Family:	Modified Polyhydroxyether
Formula:	Not applicable/Mixture
Description:	Heat Activated Coating Water Based Coating
Hazard Classification:	Skin, eye, and respiratory irritant
Revision No.:	1
Revision Date:	4/19/2005
Akron Coating & Adhesives MSDS No:	None

**II – COMPONENT DATA**

*Product Composition*

CAS or Chemical Name:	Modified Polyhydroxyether		
CAS Number:	68957-91-5		
Percentage Range:	75-80%		
Hazardous Per 29 CFR 1910.1200:	No		
Exposure Standards:	None Established		

CAS or Chemical Name:	C.I Pigment Black 7 (Carbon Black)				
CAS Number:	1333-86-4				
Percentage Range:	6.0-6.9%				
Hazardous Per 29 CFR 1910.1200:	Yes				
Exposure Standards:	OSHA PEL		ACGIH(TLV)		
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
	TWA	None	3.5	None	3.5
	CEILING	None	None	None	None
	STEL	None	6.0	None	None

CAS or Chemical Name:	2-Butoxy Ethanol				
CAS Number:	111-76-2				
Percentage Range:	8.0-9.0%				
Hazardous Per 29 CFR 1910.1200:	Yes				
Exposure Standards:	OSHA PEL		ACGIH(TLV)		
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
	TWA	50	97	97	20
	CEILING	None	None	None	None
	STEL	None	6.0	None	None



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CAS or Chemical Name:	Hydrated, Amorphous Silica				
CAS Number:	112926-00-8				
Percentage Range:	4.0-6.0%				
Hazardous Per 29 CFR 1910.1200:	Yes				
Exposure Standards:	OSHA PEL			ACGIH(TLV)	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
	TWA	None	6.0	None	3.0
	CEILING	None	None	None	None
	STEL	None	6.0	None	None

**III – PRECAUTIONS FOR SAFE HANDLING AND STORAGE**

DO NOT TAKE INTERNALLY. AVOID CONTACT WITH SKIN, EYES, AND CLOTHING.  
 UPON CONTACT WITH SKIN OR EYES, WASH OFF WITH WATER, AVOID BREATHING MIST OR VAPOR

***STORAGE CONDITIONS:***

Store in a dry place in sealed containers. Close container when not in use. Do not expose to direct sunlight or area where temperature can exceed 140<sup>0</sup> F. Do not store below 32<sup>0</sup> F

***PRODUCT STABILITY AND COMPATIBILITY:***

SHELF LIFE LIMITATIONS:	Six months
INCOMATIBLE MATERIALS FOR PACKING	Steel containers may rust
INCOMPATIBLE MATERIALS FOR STORAGE OR TRANSPORT:	Strong oxidizers, mineral acids

**IV – PHYSICAL DATA**

Appearance:	Black liquid
Melting Point:	Not applicable
Freezing Point:	0 <sup>0</sup> C (32 <sup>0</sup> F)
Boiling Point:	100 <sup>0</sup> C (212 <sup>0</sup> F)
Decomposition Temperature:	No Data
Specific Gravity:	Approximately 1
Bulk Density:	Approximately 1 (g/cc)
pH @ 25 <sup>0</sup> C:	7.5-8.5
Vapor Pressure @ 25 <sup>0</sup> C:	18.268 mm Hg
Solubility in Water:	Not Applicable (Product is a dispersion)
Volatiles, Percent by Volume:	70%
Evaporation Rate:	< 1 (Water = 1)
Vapor Density:	Similar to water
Molecular Weight:	Not Applicable / Mixture
Odor:	Mild Sour
Coefficient of Oil/Water Distribution:	Not available



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**V – PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS**

***Personal Protection for Routine Use of Product:***

Respiratory Protection:	Respiratory protection not normally needed. If vapors, mists, or aerosols are generated, wear a NIOSH approved respirator.
Ventilation:	Local exhaust ventilation is recommended if vapors, mists or aerosols are generated. Otherwise, use general exhaust ventilation.
Skin And Eye Protection:	Wear impervious gloves, boots, apron and a face shield with safety glasses or chemical goggles. A full impervious suit is recommended if exposure is possible to large portion of body.
Other:	Eye wash and safety shower should be available in the immediate work vicinity

**VI – FIRE AND EXPLOSION HAZARD INFORMATION**

***Flammability Data:***

Explosive:	No
Flammable:	No
Combustible:	No
Pyrophoric:	No
Flash Point:	None
Autoignition Temperature:	Not Applicable (aqueous dispersion)
Flammable Limits at Normal Atmospheric Temperature and Pressure (Percent Volume in Air):	LEL – Not Applicable UEL - Not Applicable

***NEPA Ratings:***

Health:	Not available
Flammability:	Not available
Reactivity:	Not available
Special Hazard Warning	Not available

***HMIS Rating:***

Health:	1
Flammability:	0
Reactivity:	0

***Extinguishing Media:***

Not Applicable – Choose extinguishing media suitable for surrounding materials.

***Fire Fighting Techniques and Comments:***

This product would not be expected to burn unless all the water is boiled away. The remaining organic compounds may be ignitable. Use water to cool containers exposed to fire.

USE A NIOSH APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS WHEN THIS MATERIAL IS INVOLVED IN A FIRE.



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## VII – REACTIVITY INFORMATION

### *Conditions Under Which This Product May Be Unstable:*

Temperatures Above:	Stable at temperatures below 140 <sup>0</sup> F
Mechanical Shock or Impact:	Not considered sensitive
Electrical (Static) Discharge:	Not considered sensitive
Hazardous Polymerization:	Will not occur
Incompatible Materials:	Strong oxidizers, mineral acids
Hazardous Decomposition:	Combustion products may include oxides of carbon and nitrogen, and sulfur

### *Summary of Reactivity:*

Explosive:	No
Oxidizer:	No
Pyrophoric:	No
Organic Peroxide:	No
Water Reactive:	No
Corrosive:	No

## VIII – FIRST AID

### *Eyes:*

Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.

### *Skin:*

Immediately flush with water for at least 15 minutes. Get medical attention. If clothing comes in contact with the product, the clothing should be removed immediately and should be laundered before re-use. Components of product can be absorbed through the skin resulting in toxic effects.

### *Ingestion:*

IMMEDIATELY CONTACT AKRON COATING & ADHESIVES @ 330-329-0098

### *Inhalation:*

Remove to fresh air immediately. If breathing has stopped, give artificial respiration and keep warm and quiet. Get medical attention.

## IX – TOXICOLOGY AND HEALTH INFORMATION

### **ROUTES OF ABSORPTION**

Eye and skin contact, ingestion, inhalation

### *Warning Statements and Warning Properties*

MAY CAUSE SKIN, EYE AND RESPIRATORY IRRITATION. PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE DERMATITIS. INHALATION OF HIGH CONCENTRATIONS MAY CAUSE DIZZINESS OR DROWSINESS. CONTAINS 2-BUTOXY ETHANOL WHICH MAY CAUSE LIVER, KIDNEY, BLOOD, HEART AND LUNG EFFECTS BASED ON ANIMAL DATA. THIS PRODUCT CONTAINS CARBON BLACK CAN AFFECT THE LUNGS.



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***Human Threshold Response Data***

	Odor Threshold:	No Data
	Irritation Threshold:	No Data
Immediately Dangerous to Life or Health:		The IDLH concentration has not been established for this product.

**SIGNS, SYMPTOMS AND EFFECTS OF EXPOSURE**

***Inhalation***

Acute:	If inhaled, may cause irritation to the upper respiratory tract. Any irritation would be transient with no permanent damage expected. Inhalation of high concentrations may cause headache, dizziness, drowsiness, and nausea.
Chronic:	Prolonged or repeated inhalation of this product may cause allergic respiratory sensitization.

***Skin***

Acute:	Skin contact may produce mild irritation consisting of transient redness. This irritant effect would not result in permanent damage.
Chronic:	Since liquid material may be absorbed through the skin, prolonged or repeated contact may result in absorption of harmful amounts. Prolonged or repeated skin contact may cause dermatitis. Repeated or prolonged skin contact may also cause some individuals to develop skin rash or other skin complications due to allergic skin sensitization.

***Eye***

Contact with the eyes would be expected to cause irritation consisting of reversible redness, swelling, tearing, and mucous discharge to the conjunctiva.

***Ingestion***

Acute:	No data is available on the effects of acute ingestion of this product. However, ingestion may cause gastrointestinal discomfort with any or all of the following symptoms: nausea, lethargy or diarrhea.
Chronic:	There are no known or reported effects from chronic exposure

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

***Skin***

Skin contact may aggravate and existing dermatitis

**INTERACTIONS WITH OTHER CHEMICALS WHICH ENHANCE TOXICITY**

None known or reported

**ANIMAL TOXICOLOGY**

Inhalation LC 50:	No Data. Believed to be slightly toxic
Dermal LD 50:	No Data. Believed to be slightly toxic
Oral LD 50:	No Data. Believed to be slightly toxic
Irritation:	Skin, eye, mucous membrane, and respiratory irritant.



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#### ***Acute Target organ Toxicity***

May cause skin, eye, mucous membrane, and respiratory tract irritation. Inhalation of high concentrations of vapors may cause dizziness or drowsiness.

#### ***Chronic Target Organ Toxicity***

This product may cause dermatitis upon prolonged or repeated skin contact. 2-butoxyethanol has oral (rat) and dermal (rabbit) LD50 values of 1250 mg/kg and 5000 mg/kg respectively. The LC50 following a 4-hour inhalation exposure to rats is 2.175 mg/l. Irritation of the nose and throat has been observed in people exposed to 2-butoxyethanol vapor levels in excess of 1ppm. Carbon Black has dermal (rabbit) LD50 values of 5000 mg/kg. The LC50 following a 4-hour inhalation exposure to rats is 27000 mg/l.

#### ***Reproductive and Developmental Toxicity***

Developmental effects 2-butoxy ethanol were seen in laboratory animals only at dose levels that were maternally toxic.

#### ***Carcinogenicity***

The International Agency for Research on Cancer has classified 2-butoxy ethanol and Carbon Black as a possible human carcinogens.

#### ***Mutagenicity***

2-butoxy ethanol and Carbon Black are mutagenic

#### ***Aquatic Toxicity***

2-butoxy ethanol: Toxicity to fish: LC50:1995 mg/l, 22<sup>0</sup> C. Toxicity to aquatic invertebrates: EC50 Daphnia magna 24Hr, 1698 mg/l

### **X – TRANSPORTATION INFORMATION**

US DOT

PROPER SHIPPING NAME: Not Regulated for non-bulk quantities

STATUS ON SUBSTANCE LISTS:

The concentrations shown are maximum or ceiling levels (%weight) to be used for calculation for regulations.  
Trade Secrets are Indicated by "TS"

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (RQ's) in 40CFR 302.4.

Components present in this product at a level which could require reporting under the statute (40CFR 355) are:  
NONE.

### **XI – SPILL AND LEAKAGE PROCEDURES**

FOR ALL SPILL AND LEAK ACCIDENTS, CONTACT: AKRON COATING & COATINGS PHONE: 1-330-329-0098

Reportable Quantity: This product is not subject to a Reportable Quantity (RQ) with respect to 2-butoxyethanol. RQ's are subject change and reference should be made to 40CFR 355 for the current requirements.



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**Spill Mitigation Procedures:**

Air Release:	Vapors may be suppressed by the use of water fog or spray. Contain all liquid for disposal.
Water Release:	Notify all downstream water users of possible contamination. Divert water flow around spill if possible and safe to do so. If unable to divert, create an overflow dam to contain material. Continue to handle as described in land spill
Land Spill:	Confine to a small area. Use absorbent to clean up. Place in appropriately marked container for disposal.

**Spill Residues:**

Dispose of per guidelines under Section XII, WASTE DISPOSAL.

**Personal Protection for Emergency Spill and Firefighting Situations:**

USE NIOSH APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS WHEN THIS MATERIAL IS INVOLVED IN A FIRE. USE FULL PROTECTIVE CLOTHING.

**XII – WASTE DISPOSAL**

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THIS MATERIAL. THE USER OF THIS MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS. IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NON HAZARDOUS WASTES.

**XIII – ADDITIONAL REGULATORY STATUS INFORMATION**

TSCA – The components of this developmental product are listed on the Toxic Substances Control Act Chemical Substance Inventory

This product contains no components that are subject to 40CFR 721.80(f), 721.90(a)(4), (b)(4) (where n=10) and 721.125 (a), (b), (c), (i), and (k). For additional assistance contact Akron Coating & Coatings.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 – PROPOSITION 65:  
“WARNING: This product contains detectable amounts of a chemical (s) known to the State of California to cause cancer and/or birth defects or other reproductive harm.”

SARA – This developmental product contains a toxic chemical or chemicals subject to the reporting requirement of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40CFR 372.  
CHEMICALS LISTED ARE : 2-butoxy ethanol

**XIV – ADDITIONAL INFORMATION**

THE INFORMATION PROVIDED ON THIS MSDS IS THE BEST ESTIMATE OF TECHNICALLY QUALIFIED INDIVIDUALS BUT MAY NOT BE BASED ON DIRECT TOXICOLOGY TESTING OR EXPERIENCE IN EMERGENCY SITUATIONS. IT MUST BE USED BY OR UNDER THE DIRECT SUPERVISION OF TECHNICALLY QUALIFIED INDIVIDUALS (AS DEFINED IN 40CFR 710.2). CONSULT PLANT PROCEDURES IN THE EVENT OF A SPILL OR LEAK FOR HANDLING AND ENVIRONMENTAL INFORMATION



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THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. AKRON COATING & COATINGS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION, BUT MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT AKRON COATING & COATINGS AT 330-724-4716 TO MAKE SURE THAT THIS SHEET IS CURRENT.