

WOLSTENHOLME INTERNATIONAL

850 HAWTHORNE LANE
 WEST CHICAGO, IL 60185
 PHONE: (630) 231-7000
 FAX: (630) 231-7623

MATERIAL SAFETY DATA SHEET

For Product Information Call: (616) 673-5822

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Date: March 5, 1999

PRODUCT

NAME: T-9096B AQUEOUS BASED BLACK DISPERSION
 CHEMICAL FAMILY: PIGMENT DISPERSION

I. HAZARDOUS INGREDIENTS

CARBON BLACK (1333-86-4) See Occupational Exposure Limits
 ISOPROPYL ALCOHOL (67-63-0) See Overexposure Effects
 POLYALKYLENE GLYCOL ETHER (9038-95-3) See Overexposure Effects
 AMMONIUM HYDROXIDE (1336-21-6) See Overexposure Effects
 HYDROXYMETHYL AMINO ETHANOL (34375-28-5) See Overexposure Effects

II. PHYSICAL DATA

	LOW	HIGH	COMMENTS
LBS/GAL	9.5	10.5	
SOLUBILITY IN WATER			Infinite
pH	9.0	10.0	
VISCOSITY @ STANDARDIZATION			Low Viscosity
APPEARANCE			Black Liquid
ODOR			Slight Ammonia Odor

III. FIRE AND EXPLOSION HAZARDS

EXTINGUISHING MEDIA: WATER SPRAY, FOAM OR DRY CHEMICALS

SPECIAL PROCEDURES: USE SELF CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

UNUSUAL HAZARDS: NONE

IV. HEALTH INFORMATION

OVEREXPOSURE EFFECTS: THIS PRODUCT CONTAINS THE FOLLOWING INGREDIENTS WHICH CAN HAVE THE FOLLOWING EFFECTS:

MARKETED BY
HARWICK STANDARD
 DISTRIBUTION CORPORATION
 60 S. Seiberling Street • Akron, Ohio 44305
 Akron • Chicago • Northeast • Southern • West Coast

WOLSTENHOLME INTERNATIONAL

3450 EAGLE DRIVE
 ALLEGAN, MI 49010
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IV. HEALTH INFORMATION - CONTINUED-----

ISOPROPYL ALCOHOL (67-63-0) IS A SKIN IRRITANT AND PROMOTES DERMATITIS
 EYE CONTACT WILL CAUSE EXTREME IRRITATION AND CAN CAUSE INJURY TO
 EYE TISSUE IF NOT REMOVED PROMPTLY. INHALATION IS AN IRRITANT TO
 RESPIRATORY SYSTEM AND CAN CAUSE HEADACHES AND DIZZINESS,
 ANESTHETIC. INGESTION: DO NOT INDUCE VOMITING.

POLYALKYLENE GLYCOL ETHER (9038-95-3) - SWALLOWING: LOW SYSTEMIC
 TOXICITY. MAY CAUSE ABDOMINAL DISCOMFORT, NAUSEA, VOMITING AND
 DIARRHEA. MATERIAL ASPIRATED DURING VOMITING MAY LEAD TO LUNG
 INJURY. SKIN CONTACT: MAY CAUSE LOCAL ITCHING, REDNESS AND
 SWELLING. MAY AGGRAVATE EXISTING DERMATITIS.

AMMONIUM HYDROXIDE (1336-21-6) CAUSES SEVERE IRRITATION OF SKIN, EYES
 AND RESPIRATORY TRACT.

HYDROXYMETHYL AMINO ETHANOL (34375-28-5) LESS THAN 0.25%

V. OCCUPATIONAL EXPOSURE LIMITS-----

TLV	TWA	PPM	MG/M3 INGREDIENT
CARBON BLACK:			3.5
POLYALKYLENE GLYCOL ETHER TLV:		NONE ESTABLISHED	
ISOPROPYL ALCOHOL:		400	980
AMMONIUM HYDROXIDE:		25	
HYDROXYMETHYL AMINO ETHANOL:		NONE ESTABLISHED	

VI EMERGENCY AND FIRST AID PROCEDURES-----

INHALATION:	CONSULT A PHYSICIAN IF IRRITATION OF RESPIRA- TORY PASSAGES OCCURS.
EYE CONTACT	FLUSH WITH WATER-CONSULT WITH A PHYSICIAN IF IRRITATION CONTINUES.
SKIN CONTACT	WASH WITH SOAP AND WATER - CONSULT PHYSICIAN IF IRRITATION CONTINUES.

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VI. EMERGENCY AND FIRST AID PROCEDURES - CONTINUED

INGESTION: GIVE MILK OR WATER TO CONSCIOUS PERSON - CONSULT WITH A PHYSICIAN.

ADDITIONAL MEASURES: NONE

VII. REACTIVITY DATA

CHEMICAL STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARDOUS DECOMPOSITION: CARBON COMPOUNDS MAY BE GENERATED DURING THERMAL DECOMPOSITION

MATERIALS TO AVOID: STRONG OXIDIZING AGENTS

VIII. SPILL, LEAK AND DISPOSAL PROCEDURES

SPILL OR LEAK: MIX WITH INERT ABSORBENT, PLACE IN SUITABLE CONTAINER. AVOID DISCHARGE IN SEWER OR WATERWAYS.

WASTE DISPOSAL: DISPOSE OF OR INCINERATE IN ACCORDANCE WITH REGULATIONS.

IX. EMPLOYEE PROTECTION

RESPIRATORY PROTECTION: EXPOSURES EXCEEDING TLV REQUIRE CHEMICAL CARTRIDGE RESPIRATOR

CLOTHING: SUITABLE TO AVOID SKIN CONTACT SAFETY GLASSES & RUBBER GLOVES

VENTILATION: USE LOCAL EXHAUST OR RESPIRATORY PROTECTION TO MAINTAIN EMPLOYEE EXPOSURE BELOW THE PEL OR TLV.

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X SPECIAL PRECAUTIONS-----

THE INGREDIENTS IN THIS PRODUCT ARE NOT LISTED BY OSHA, NTP OR IARC AS A CARCINOGEN.

CARBON BLACK: IARC GROUP 2B: POSSIBLE CARCINOGEN TO HUMANS.

XI OTHER REGULATORY CONTROLS-----

THE FOLLOWING SPECIFIC INFORMATION IS MADE FOR THE PURPOSE OF COMPLYING WITH NUMEROUS FEDERAL, STATE OR PROVINCIAL, AND LOCAL LAWS AND REGULATIONS.

THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE MSDS REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200.

OSHA HAZARDOUS CHEMICAL(S): ISOPROPANOL

-CALIFORNIA PROPOSITION 65 (SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986): MATERIAL(S) KNOWN TO THE STATE TO CAUSE CANCER: NONE

-CALIFORNIA PROPOSITION 65 (SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986): MATERIAL(S) KNOWN TO THE STATE TO CAUSE ADVERSE REPRODUCTIVE EFFECTS: NONE

-MASSACHUSETTS SUBSTANCE LIST: ISOPROPANOL

-NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE LIST: ISOPROPANOL

-PENNSYLVANIA HAZARDOUS SUBSTANCE LIST: ISOPROPANOL

-THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE MSDS REQUIREMENTS OF THE WHMIS CONTROLLED PRODUCTS REGULATION.

-WHMIS (CANADA) INGREDIENT DISCLOSURE LIST: ISOPROPANOL

-WHMIS (CANADA) STATUS: CONTROLLED

-WHMIS (CANADA) CONTROLLED MATERIAL (S) : ISOPROPANOL

-WHMIS (CANADA) HAZARD CLASSIFICATION: B/2

-CARCINOGENICITY CLASSIFICATION (COMPONENTS PRESENT AT 0.1% OR MORE):

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XI. OTHER REGULATORY CONTROLS - CONTINUED-----

-INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC): NOT LISTED
-AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
(ACGIH): NOT LISTED

-OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA): NOT LISTED
-CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OR
TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT
(SARA) OF 1986 AND 40 CFR PART 372: NONE

-SARA (U.S.A.) SECTIONS 311 AND 312 HAZARD CLASSIFICATION(S): FIRE HAZARD,
IMMEDIATE (ACUTE) HEALTH HAZARD

-US TOXIC SUBSTANCES CONTROL ACT (TSCA): THIS PRODUCT IS LISTED ON THE
TSCA INVENTORY. ANY IMPURITIES PRESENT IN THIS PRODUCT ARE EXEMPT
FROM LISTING.

-CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) AND DOMESTIC
SUBSTANCES LIST (DSL): THIS PRODUCT IS LISTED ON THE DSL OR OTHERWISE
COMPLIES WITH CEPA NEW SUBSTANCE NOTIFICATION REQUIREMENTS.

-EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES
(EINECS): THIS PRODUCT IS LISTED ON EINECS.

-AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) AND NATIONAL
INDUSTRIAL CHEMICALS NOTIFICATION AND ASSESSMENT SCHEME (NICNAS):
THIS PRODUCT IS LISTED ON AICS OR OTHERWISE COMPLIES WITH NICNAS.

-JAPANESE HANDBOOK OF EXISTING AND NEW CHEMICAL SUBSTANCES: THIS
PRODUCT IS LISTED ON THE HANDBOOK OR HAS BEEN APPROVED IN JAPAN BY
NEW SUBSTANCE NOTIFICATION.

HMIS

HEALTH:

FLAMMABILITY: 1

REACTIVITY: 0

THESE RATINGS SHOULD ONLY BE USED AS PART OF THE HMIS PROGRAM.

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NOTICE: REGULATORY REQUIREMENTS ARE SUBJECT TO CHANGE AND MAY DIFFER FROM ONE LOCATION TO ANOTHER; IT IS THE BUYER'S RESPONSIBILITY TO ENSURE THAT ITS ACTIVITIES COMPLY WITH FEDERAL, STATE OR PROVINCIAL, AND LOCAL LAWS.

ENVIRONMENTAL DATA SHEET

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PRODUCT: T-9096B AQUEOUS BASED BLACK DISPERSION COMPONENT:
ISOPROPYL ALCOHOL

SECTION I		PRODUCT/COMPOSITION	
NO.	COMPONENT	CAS NUMBER	PERCENT
P	ISOPROPYL ALCOHOL	67-63-0	<3

SECTION II		SARA TITLE III INFORMATION			
NO.	EHS RQ (LBS) (*1)	EHS TPQ (LBS) (*2)	SEC 313 (*3)	313 CATEGORY (*4)	311/312 CATEGORIES (*5)
P					H-1,P-3

FOOTNOTES

*1 - REPORTABLE QUANTITY OF EXTREMELY HAZARDOUS SUBSTANCE, SEC. 302
*2 - THRESHOLD PLANNING QUANTITY, EXTREMELY HAZARDOUS SUBSTANCE,
SEC 302 *3 = TOXIC CHEMICAL, SEC 313 *4 = CATEGORY AS REQUIRED BY SEC 313
(40 CFR 372.65 C), MUST BE USED ON

TOXIC RELEASE INVENTORY FORM *5 = HAZARD CATEGORY FOR SARA
SEC. 311/312 REPORTING

HEALTH H-1 = IMMEDIATE (ACUTE) HEALTH HAZARD H-2 = DELAYED
(CHRONIC) HEALTH
HAZARD

PHYSICAL P-3 = FIRE HAZARD
P-5 = REACTIVE HAZARD

P-4 = SUDDEN RELEASE OF
PRESSURE HAZARD

SECTION III ENVIRONMENTAL RELEASE INFORMATION

KEEP OUT OF SURFACE WATERS, SEWERS, AND WATERWAYS ENTERING OR
LEADING TO SURFACE WATERS. NOTIFY AUTHORITIES IF ANY EXPOSURE TO
THE GENERAL PUBLIC OR ENVIRONMENTAL OCCURS OR IS LIKELY TO OCCUR.

THIS INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO
US AND IS BELIEVED TO BE CORRECT. HOWEVER, ABCO MAKES NO WARRANTY,
EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE
RESULTS TO BE OBTAINED FROM THE USE THEREOF. ABCO ASSUMES NO
RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED
HEREIN.