



MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BUEHLER ANTHRACITE PAINT AEROSOL
 IDENTIFICATION NUMBER: R-8797
 PRODUCT USE/CLASS: Paint

SUPPLIER:
 BUEHLER, a division of Illinois Tool Works Inc.
 41 WAUKEGAN ROAD
 LAKE BLUFF, IL 60044

EMERGENCY: 800-424-9300
 INFORMATION: 847-295-6500
 PREPARER: Technical Department, 847-295-6500
 PREPARE DATE: 03/23/09, 23 March 2009

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT%
01	Toluene	108-88-3	1.0-5.0
02	2-Heptanone	100-43-0	1.0-5.0
03	Carbon Black	1333-86-4	1.0-5.0
04	Isopropyl acetate	108-21-4	10.0-30.0
05	n-Butyl acetate	123-86-4	5.0-10.0
06	Talc	14807-96-6	1.0-5.0
07	Xylene	1330-20-7	1.0-5.0

ITEM	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL – CEILING	COMPANY TLV-TWA	SKIN
01	50 ppm	N.E.	200 ppm	300 ppm	100ppm NIOSH	YES
02	50 ppm	N.E.	100 ppm	N.E.	50 ppm	NO
03	3.5 mg/m ³	N.E.	3.5 mg/m ³	N.E.	2.5 mg/m ³	NO
04	250 ppm	310 ppm	250 ppm	310 ppm	250 ppm	NO
05	150 ppm	200 ppm	150 ppm	N.E.	N.E.	NO
06	2 mg/m ³ resp	N.E.	20 mppcf	N.E.	2 mg/m ³ resp	NO
07	100 ppm	150 ppm	100 ppm	150 ppm	100 ppm	NO

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Harmful if inhaled or swallowed. High vapor concentrations may cause drowsiness. Flammable liquid and vapor. Contents under pressure. May cause skin irritation. May cause eye irritation. Repeated and prolonged overexposure may cause target organ effects. See chronic effects information.

ACUTE EFFECTS – EYE CONTACT: Severely irritating to the eyes. Contact may cause injury to eye tissue if not removed promptly.

ACUTE EFFECTS - SKIN CONTACT: Moderate irritant. Prolonged contact may cause dermatitis.

ACUTE EFFECTS – INHALATION: Liquid aspirated into lungs may cause chemical pneumonitis. Can cause severe central nervous system depression, including unconsciousness. Liquid particles breathed into the lungs may cause injury to the lungs, liver, or kidneys. Vapors may have a strong offensive odor which may cause headaches, nausea and vomiting. Prolonged inhalation may be harmful. Causes respiratory tract irritation.

ACUTE EFFECTS - INGESTION: May cause nausea and vomiting.

CHRONIC OVEREXPOSURE EFFECTS: *Repeated inhalation of vapors from heated material may cause respiratory sensitization with asthma-like response. Previously sensitized persons may experience effects even at levels below recommended safe exposure limits. *Teratogenicity (damage to fetus) similar to that of fetal alcohol syndrome is found in human studies where there is repeated excessive in-utero exposure toluene. Chronic toluene abuse produces kidney damage. *Preexisting pulmonary and dermatological disorders may be aggravated by exposure to hazardous components. *Overexposure to xylene has been found to cause anemia, liver abnormalities, kidney damage, and/or eye damage in animals. Repeated or prolonged overexposure may cause injury to the red blood cells, ECG abnormalities, dyspnea, cyanosis, or damage to the central nervous system. Xylene at about 100 ppm may affect equilibrium, slow reaction time, or affect manual coordination. *Studies suggest that solvent chronic overexposure effects are targeted at the liver and central nervous system. Deliberate and repeated inhalation of concentrated solvent vapors may cause permanent neural injury. Consumption of alcohol in conjunction with repeated solvent exposure may cause color vision defects. *Repeated and prolonged inhalation of graphite or carbon dusts may cause pulmonary fibrosis, emphysema, and pneumoconiosis. The severity of these effects is greatly influenced by the presence of other harmful mineral dusts, most notably crystalline silica. *This product contains talc. Repeated and prolonged occupational overexposure to talc has been associated with pulmonary fibrosis and/or pneumoconiosis. These conditions may exist with or without a decrease in lung function.

OTHER INFORMATION: No information.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT, INHALATION, EYE CONTACT

SECTION 4 – FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention

INGESTION: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN: No information.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT: 35 F (SETAFLASH CLOSED CUP)

LOWER EXPLOSIVE LIMIT: 1.1 %

UPPER EXPLOSIVE LIMIT: 7.9 %

AUTOIGNITION TEMPERATURE: No data

EXTINGUISHING MEDIA: ALCOHOL FOAM,CO₂,DRY CHEMICAL,FOAM,WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Aerosol containers may rupture or explode when exposed to direct heat. Vapors are heavier than air, and may travel along the ground to be reignited at locations distant from the source; flashback of flame may occur. "Empty" containers may retain dangerous product residues or explosive vapors. Store full and empty containers away from heat, sparks, flame, and other sources of ignition. Irritating and/or toxic gases or fumes may be generated by thermal decomposition or combustion.

SPECIAL FIREFIGHTING PROCEDURES: Use NIOSH-approved self-contained breathing apparatus and full protective clothing. Use water to cool exposed containers.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate heat, sparks, flames, and sources of ignition if safe to do so. Wipe up residue with non-sparking tools. Wash spill area with mild detergent solution. Dispose of contaminated articles in accordance with federal, state, and local regulations. Dispose of damaged aerosol container in accordance with state and local regulations regarding "empty" chemical containers.

SECTION 7 – HANDLING AND STORAGE

HANDLING: Use with adequate ventilation. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid contact with skin and eyes. FOR INDUSTRIAL USE ONLY.

STORAGE: Keep away from heat, sparks and flame. Do not store in direct sunlight. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: For prolonged usage, local explosion-proof exhaust as needed to control vapor or dust levels to below lowest component TLV.

RESPIRATORY PROTECTION: If TLV/PEL is exceeded, if use is performed in a poorly-ventilated space, or if inhalation effects occur, use NIOSH-approved organic vapor cartridge respirator in accordance with applicable health and safety regulations and manufacturer's recommendations.

SKIN PROTECTION: Clean clothing to cover skin. Butyl rubber gloves. Teflon gloves. Viton gloves. Supported PVA gloves.

EYE PROTECTION: Safety glasses.

OTHER PROTECTIVE EQUIPMENT: Accessible eye wash and safety shower.

HYGIENIC PRACTICES: Follow good general industrial safety practices during use. Do not smoke or eat during use. Follow all MSDS/label precautions even after container is emptied

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE:	190 - 304 F	VAPOR DENSITY:	Is heavier than air
ODOR:	Strong solvent	ODOR THRESHOLD:	Appr 1 ppm
APPEARANCE:	Black	EVAPORATION RATE:	Is slower than Butyl Acetate
SOLUBILITY IN H ₂ O:	Insoluble	SPECIFIC GRAVITY:	1.60
VAPOR PRESSURE:	<100 mmHg@20 C	pH @ 0.0%:	N.A.
PHYSICAL STATE:	Aerosol	VISCOSITY:	N.A.
COEFFICIENT OF WATER/OIL DISTRIBUTION:	No data		

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

SECTION 10 – STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Prolonged exposure to heat.

INCOMPATIBILITY: Strong Lewis or mineral acids. Strong bases or oxidants. Metals. Surface-active compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 – TOXICOLOGICAL PROPERTIES

COMPONENT TOXICOLOGICAL INFORMATION:

----- CHEMICAL NAME -----	----- LD50 -----	----- LC50 -----
Toluene	oral-rat 5000mg/kg	Mouse 5320 ppm/8H
2-Heptanone	oral(rat)1600mg/kg	No information
Carbon Black	Oral-rat=>8 g/kg	No information
Isopropyl acetate	Oral rat 3.0 g/kg	No data
n-Butyl acetate	No information	No information
Talc	derm(hmn)300ug/3DI	(rat)11mg/m3
Xylene	oral(rat)4300mg/kg	no data

SECTION 12 – ECOLOGICAL INFORMATION

No information.

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Review all current federal, state, and local regulations regarding health and disposal for appropriate disposal procedures. DO NOT landfill. If disposed of "as sold", product is considered a hazardous waste per Federal RCRA regulations.

SECTION 14 – TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Aerosols, flammable	
DOT TECHNICAL NAME: N.A.	
DOT HAZARD CLASS: 2.1	HAZARD SUBCLASS: N.A.
DOT UN/NA CLASS: UN1950	PACKAGING GROUP: N.A.
	RESP. GUIDE PAGE: 126
INTERNATIONAL SHIPPING NAME: ICAO/IATA: Aerosols, flammable IMO/IMDG : Aerosols Aerosols, flammable	
INTERNATIONAL ID NUMBER: UN1950	
IMDG CLASS (1°, 2°): 2, none	IMDG PAGE NUMBER: N.A.
IMDG EMS: 213	IATA CLASS (1°, 2°): 2.1, none

SECTION 15 – REGULATORY INFORMATION

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA – SARA HAZARD CATEGORY: THIS PRODUCT HAS BEEN REVIEWED, AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES: IMMEDIATE HEALTH HAZARD
CHRONIC HEALTH HAZARD FIRE HAZARD

SARA SECTION 313: THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 AND 40 CFR PART 372:

----- CHEMICAL NAME ----- CAS NUMBER WT/WT % IS LESS THAN

Toluene	108-88-3	1.0-5.0
Xylene	1330-20-7	1.0-5.0

TOXIC SUBSTANCE CONTROL ACT: THE CHEMICAL SUBSTANCES IN THIS PRODUCT ARE ON THE TSCA SECTION 8 INVENTORY. THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE UNITED STATES: NONE

NEW JERSEY RIGHT-TO-KNOW: THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP 5 COMPONENTS IN THIS PRODUCT:

----- CHEMICAL NAME ----- CAS NUMBER

Calcium carbonate/limestone	471-34-1
Polyurethane prepolymer	unknown

PENNSYLVANIA RIGHT-TO-KNOW: THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT GREATER THAN 3%:

----- CHEMICAL NAME ----- CAS NUMBER

Calcium carbonate/limestone	471-34-1
Polyurethane prepolymer	unknown

CALIFORNIA PROPOSTION 65: WARNING: This product contains a chemical(s) known to the state of California to cause cancer and birth defects or other reproductive harm.

CANADIAN WHMIS: THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT REGULATIONS EXCEPT FOR USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS: D2A, A, B1

COMPONENT RCRA CLASSIFICATIONS: Ignitable. Toxic

COMPONENT RCRA CODES: D001 F005 U239 U220

CERCLA RQ VALUE (MINIMUM): 100

SECTION 16 – OTHER INFORMATION

HMIS RATINGS

HEALTH: 2*

FLAMMABILITY: 3

REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 20 May 2006

REASON FOR REVISION: Administrative change for new format.

VOLATILE ORGANIC COMPOUNDS: 323 grams/ltr (calculated)

LEGEND:

N.A. – NO INFORMATION

N.E. – NOT ESTABLISHED

N.D. – NOT DETERMINED

ABBREVIATIONS: ACGIH = AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS; OSHA = OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION; TLV-TWA = THRESHOLD LIMIT VALUE – TIME WEIGHTED AVERAGE (8 HOURS); STEL = SHORT-TERM EXPOSURE LIMIT (15 MINUTES); C = CEILING VALUE; PEL = PERMISSIBLE EXPOSURE LIMIT

DISCLAIMER: TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED IN THIS MSDS IS ACCURATE OR IS OBTAINED FROM SOURCES BELIEVED TO BE ACCURATE. HOWEVER, NO LIABILITY, EXPRESSED OR IMPLIED, IS ASSUMED FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN. BUYER ASSUMES LIABILITY IN ITS USE OF THE MATERIAL.