

Material Safety Data Sheet

Graphite Sandwich Baffle

GRADE NAMES:

Calgraph, Sigraflex, flexible graphite, graphite foil, Sigraflex APX2, Sigraflex B, A

IDENTITY BAFFLES	Date prepared: November 19, 2007
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Section I

Manufacturer's name BAY COMPOSITES	Emergency Telephone Number 989-891-9155
800 JEFFERSON AVE	989-832-3335
MIDLAND, MI 48640	Date Prepared: 11/19/2007
	Signature of Preparer (optional)

Section II—Hazardous Ingredients/Identity Information

CAN CAUSE EYE IRRITATION, PRIMARILY THOROUGH MECHANICAL ABRASION.

INGESTION IS NOT A NORMAL ROUTE OF EXPOSURE. LARGE QUANTITIES COULD CAUSE GASTROINTESTINAL IRRITATION.

INHALATION OF HIGH CONCENTRATION OF GRAPHITE DUST OVER PROLONGED PERIODS OF TIME MAY CAUSE A GRAPHITE PNEUMOCONIOSIS. SYMPTOMS CAN INCLUDE: COUGH, SHORTNESS OF BREATH AND DECREASE IN PULMONARY FUNCTION.

PRE-EXISTING PULMONARY DISORDERS SUCH AS EMPHYSEMA MAY POSSIBLY BE AGGRAVATED BY PROLONGED EXPOSURE TO HIGH CONCENTRATIONS OF GRAPHITE DUST.

EMERGENCY/FIRST AID: INHALATION: REMOVE TO FRESH AIR, SEEK MEDICAL ATTENTION. EYES: FLUSH EYES WITH WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS. SKIN: WASH WITH MILD SOAP AND WATER. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS. INGEST: TAKE TWO GLASSES OF WATER TO DILUTE AND INDUCE VOMITTING.

Section III—Physical/Chemical Characteristics

Boiling Point	170 DEGREES C	Specific Gravity (H ₂ O = 1)	1.1 BC 628 2.0 GRAPHITE FOIL
Vapor Pressure (mm Hg)	NA	Melting Point	NA
Vapor Density (AIR = 1)	NA	Evaporation Rate (Butyl Acetate = 1)	NA

Solubility in Water INSOLUABLE

Appearance and Odor

GRAPHITE FOIL: GRAY SHEET

BC628: BLACK LIQUID

GRAPHITE FELT:BLACK FELT

Section IV—Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
UNK	NA	NA	NA

Extinguishing Media

USE WATER FOG, CARBON DIOXIDE, DRY CHEMICAL OR FOAM

Special Fire Fighting Procedures

WEAR FULL FIRE FIGHTING PROTECTIVE CLOTHING AND SELF CONTAINED BREATHING APPARATUS. MATERIAL NEAR FIRE SHOULD BE COOLED WITH WATER OR FOG.

Unusual Fire and Explosion Hazards

THERMAL DECOMPOSITION OR COMBUSTION MAY PRODUCE DENSE SMOKE, OXIDES OF CARBON, AS WELL AS LOW MOLECULAR WITH ORGANIC COMPOUNDS WHOSE COMPOSITIONS HAVE NOT BEEN. ACCUMULATIONS OF GRAPHITE DUST MAY CAUSE SHORTING OF ELECTRICAL CIRCUITS. INCINERATING THIS MATERIAL MAY GENERATE AIRBORNE FIBERS WHICH MAY CAUSE ELECTRICAL MALFUNCTIONS.

Section V—Reactivity Data

Stability	Unstable NA		Conditions to Avoid NA
	Stable YES		AVOID HIGH TEMPERATURES.

Incompatibility (*Materials to Avoid*)

AVOID CONTACT WITH STRONG OXIDIZING AND REDUCING AGENTS AND STRONG ACIDS

Hazardous Decomposition or Byproducts

SMOKE, OXIDES OF CARBON, LOW MOLECULAR WEIGHT ORGANIC COMPOUNDS WHOSE COMPOSITIONS HAVE NOT BEEN CHARACTERIZED

Hazardous Polymerization	May Occur YES		Conditions to Avoid HEXAMTHYLENETETRAMINE REACTS VIOLENTLY WITH NA2O2
	Will Not Occur NA		NA

Section VI—Health Hazard Data

Route(s) of Entry	Inhalation?	Skin?	Ingestion?
	YES	YES	YES

Health Hazards (*Acute and Chronic*)

LIQUID FURFURYL ALCOHOL AND HIGH CONCENTRATIONS OF VAPORS MAY BE HIGHLY IRRITATING TO THE EYES, SKIN, MUCOUS MEMBRANES AND RESPIRATORY TRACT. INGESTION MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, CRAMPING AND VOMITING. EXPOSURE TO HIGH CONCENTRATIONS OF VAPORS MAY CAUSE HEADACHE, DIZZINESS, NAUSEA, DISORIENTATION

Carcinogenicity	NTP?	IARC Monographs?	OSHA Regulated?
NA	NA	NA	NA

Signs and Symptoms of Exposure

IRRITATING TO THE EYES, SKIN, MUCOUS MEMBRANES, AND RESPIRATORY TRACT. DIRMATITIS, COUGH, SHORTNESS OF BREATH AND DECREASE IN PULMONARY FUNCTION COULD OCCUR.

Medical Conditions

Generally Aggravated by Exposure

PRE-EXISTING PULMONARY, DERMAL, KIDNEY, AND LIVER DISORDERS MAY POSSIBLY BE AGGREGATED BY PROLONGED EXPOSURE TO HIGH CONCENTRATIONS OF THE MATERIALS.

Emergency and First Aid Procedures

INHAL: REMOVE TO FRESH AIR, SEEK MEDICAL ATTENTION. EYES: FLUSH WITH WATER FOR 15 MINUTES- SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

SKIN: WASH WITH MILD SOAP AND WATER, IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

INGESTION: GIVE TWO GLASSES OF WATER TO DILUTE AND INDUCE VOMITING

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

GRAPHITE DUSTS SHOULD BE VACUUMED TO PREVENT ACCUMULATION. PRACTICE GOOD HOUSEKEEPING TO AVOID ACCUMULATION

OF DUST IN THE WORKPLACE. AVOID CREATING AND BREATHING AIRBORNE FIBERS/DUST. WASH HANDS THOROUGHLY

AFTER HANDLING AND do not eat or drink in those areas.

Waste Disposal Method:

IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Precautions to Be Taken in Handling and Storing: STORE IN LABELED, CLOSED CONTAINERS AWAY FROM HEAT, SPARKS, OPEN FLAMES AND OTHER SOURCES OF IGNITION. DO NOT STORE WITH OR NEAR INCOMPATIBLE CHEMICALS.

Other Precautions

CARBON AND GRAPHITE DUSTS ARE ELECTRICALLY CONDUCTIVE. ACCUMULATIONS OF DUSTS MAY CAUSE SHORTING OF ELECTRICAL CIRCUITS. CARE SHOULD BE TAKEN TO SEAL ELECTRICAL CIRCUITS AND SWITCHES THAT MAY BE AFFECTED

Section VII—Control Measures

Respiratory Protection

IF FIBERS ARE GENERATED AND VENTILATION IS INADEQUATE, USE AN APPROPRIATE NIOSH APPROVED RESPIRATOR

Ventilation	Local Exhaust YES	Special PROVIDE SUFFICIENT GENERAL AND LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE FIBERS
	Mechanical (<i>General</i>)	Other
Protective Gloves RUBBER GLOVES	Eye Protection CHEMICAL SPLASH GOGGLES	

Other Protective Clothing or Equipment

WEAR NORMAL WORK CLOTHES, GLOVES AND GOGGLES

Work/Hygienic Practices

WASH CONTAMINATED CLOTHING BEFORE REUSE

INGREDIENTS:

TETRAAZATRICYCLO DECANE CAS# 100970
POWDER CARBON (16-24%) CAS# 7440440
POWDER PHENOLIC RESIN (11-16%) CAS# 9403354
POWDER TRANSIL OIL (2-3%) CAS# 64742456
POWDER HEXAMETHYLENETETRAMINE CAS# 108970
EXPANDED PURIFIED NATURAL GRAPHITE
SILICA SAND (ASH)
PHOSPHORIC ACID