

MATERIAL SAFETY DATA SHEET

Technical Barrier Systems
151 Randall Street
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(905) 842-9488

PRODUCT : Sanpox EE - Hardener

SECTION 01 : PRODUCT INFORMATION

Supplier Technical Barrier Systems Inc.
Product Identifier
TradeName Sanpox EE - Hardener
Prepared by Keith Seaman
Preparation Date 12-Oct-02
Revision #
CEPA Status All of the ingredients of this product are listed on the domestic
Chemical Family
Chemical Formula
Chemical Name
Material Use Resurfacing material for concrete Curing Agent (Used with Resin)
Molecular Weight
T.D.G. Classification Non Regulated
WHMIS Classification

SECTION 02 : HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS, %, EXPOSURE LEVELS, C.A.S. #, LD/50, ROUTE, SPECIES, LC/50, ROUTE, SPECIES

D-230	9046-10-8	1660 MG/KG	Rat Oral
AEP	140-31-8		Rat Oral
ACC-399	102-71-6	5MG/M3	ACGIH
	110-82-0		
	140-31-8		
Epodil L	25155-81-1	N/A	
	108-88-3	636 MG/KG	Rat Oral

SECTION 03 : PHYSICAL DATA

PHYSICAL STATE
ODOUR/APPEARANCE Colorless to slightly yellow liquid with a slight haze
ODOUR THRESHOLD Ammonia-like
VAPOUR PRESSURE 1mmHg at 100 C (212 F)
VAPOUR DENSITY (AIR=1) >1
% VOLATILE:
BY VOLUME
BY WEIGHT
VISCOSITY 9.5 cS at 25 C (77 F)
BOILING POINT 260 C (500 F)
FREEZING POINT Not determined
pH 11.7 (5% aqueous)
SPECIFIC GRAVITY 0.948@20/20 C
SOLUBILITY IN WATER (20C) >10
VOC CONTENT 25% by ASTM D 2369

SECTION 04 : FIRE & EXPLOSION DATA

FLAMMABILITY
IF YES, UNDER WHAT CONDITIONS
MEANS OF EXTINCTION Use water spray, dry chemical, foam or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.
SPECIAL PROCEDURES Wear special protective chemical clothing and positive pressure self-contained breathing apparatus. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Decontaminate or discard any clothing that may contain chemical residues.
FLASHPOINT AND METHOD 121.1 (250 F) (PMCC)
AUTO IGNITION TEMPERATURE Not determined
T.D.G. FLAMMABILITY CLASS

UPPER EXPLOSION LIMIT	Not determined
LOWER EXPLOSION LIMIT	Not determined
HAZARDOUS COMBUSTION PRODUCTS	None
EXPLOSION DATA	
SENSITIVITY TO STATIC DISCHARGE	
SENSITIVITY TO IMPACT	
RATE OF BURNING	
EXPLOSIVE POWER	

SECTION 05 : REACTIVITY DATA

CHEMICAL STABILITY

STABLE?

CONDITIONS TO AVOID This material reacts violently with acids

COMPATIBILITY W/OTHER SUBSTANCES

YES

INCOMPATIBLE MATERIALS

REACTIVITY, UNDER WHAT CIRCUMSTANCES

HAZARDOUS PRODUCTS OF DECOMPOSITION Toxic levels of ammonia, combustion products of nitrogen, carbon monoxide, carbon dioxide, imitating aldehydes and ketones may be formed on burning in a limited air supply.

SECTION 06 : TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY

SKIN CONTACT Causes severe irritation with pain. Severe excess redness and swelling with chemical burns, blister formation, and possible tissue destruction. Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from breif skin contact.

SKIN ABSORPTION

EYE CONTACT Causes irritation, experienced as pain, with excess blinking and tear production, and seen as extream redness and swelling of the eye and chemical burns of the eye. Severe eye damage may cause blindness.

INHALATION, ACUTE Causes burning of mouth, throat and stomach with abdominal and chest pain, nausea, vomiting, dirrhea, thirst, weakness, and collapse.

INHALATION, CHRONIC Prolonged or repeated overexposure may result in lung damage.

INGESTION

EFFECTS OF ACUTE EXPOSURE

EFFECTS OF CHRONIC EXPOSURE Repeated skin contact may cause a persistant irritation or dermatitis. Repeated inhalation may cause lung damage.

LD 50 OF MATERIAL, SPECIES & ROUTE Oral 2.88 g/kg (rat) slightly toxic. Dermal 2.98 g/kg (rabbit)pratically non-toxic.

LC 50 OF MATERIAL, SPECIES & ROUTE

EXPOSURE LIMIT OF MATERIAL

IRRITATION CAUSED BY MATERIAL

SENSITIZING CAPABILITY OF MATERIAL

CARCINOGENICITY OF MATERIAL

REPRODUCTIVE EFFECTS

SYNERGISTIC MATERIALS

SECTION 07 : PREVENTIVE MATERIALS

PROTECTIVE EQUIPMENT

GLOVES/TYPE Gloves resistant to chemicals and petroleum distillates required

RESPIRATORY/TYPE	Airborne concentrations should be kept to lowest level possible. If vapour, mist or dust is generated and the occupational exposure limit of the product, or any component of the product is exceeded, use appropriate NIOSH approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.
EYE/TYPE	Avoid eye contact. Chemical type goggles with face shield must be worn. Do not wear contact lenses.
FOOTWEAR/TYPE	Protective clothing such as coveralls or lab coats should be worn. Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry-cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing.
CLOTHING/TYPE	
OTHER/TYPE	Ventilate area. Avoid breathing vapour. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.
ENGINEERING CONTROLS	
SPILL/LEAK SPILL/LEAK	
WASTE DISPOSAL, METHOD AND EQUIPMENT	This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.
HANDLING PROCEDURES AND EQUIPMENT	Minimum feasible handling temperatures should be maintained. Eye wash and safety shower should be available nearby when this product is handled or used.
STORAGE NEEDS	Periods of exposure to high temperatures should be minimized. Water contamination should be avoided. If stored above 100 F, a nitrogen atmosphere is recommended.
SPECIAL SHIPPING INSTRUCTIONS	

SECTION 08 : FIRST AID MEASURES

EYE CONTACT	Immediately flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Do not attempt to neutralize with chemical agents. Obtain medical attention immediately. Continue flushing for an additional 15 minutes if medical attention is not immediately available.
SKIN CONTACT	Immediately remove contaminated clothing and shoes. Under a safety shower, flush skin thoroughly with large amounts of running water for at least 15 minutes. Do not attempt to neutralize with chemical agents. Get medical attention immediately. Discard or decontaminate clothing and shoes before reuse.
INGESTION	If person is conscious and can swallow, immediately give two glasses of water (16 oz.), but do not induce vomiting. This material is corrosive. If vomiting occurs, give fluids again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person.
INHALATION	If inhaled, remove to fresh air. If not breathing, or in respiratory distress, clear person's airway and start artificial respiration. With a physician's advise, give supplemental oxygen using a bag-valve mask or manually triggered oxygen supply.
NOTES TO PHYSICIAN	

SECTION 09 : PREPARATION INFORMATION

PHONE #	888-537-2888
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