



AMERICAN HYDROTECH, INC.
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HYDROGUARD
HYDROGUARD HEAVY
HYDROGUARD RE

SECTION I

CHEMICAL NAME & SYNONYMS: N.A.
CHEMICAL FAMILY: N.A.
TRADE NAME & SYNONYMS: Hydroguard Ballasted Roof Insulation
FORMULA: N.A.

SECTION II – HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>C.A.S. #</u>	<u>%</u>	<u>TLV EXPOSURE LIMITS</u>
Polystyrene	9003-53-6	N.Av.	N.Av.
Chloridifluoroethane	75-68-3	<15	N.Av.
Copolymer Mixtures			
Hologenated Flame Retardant			
Mortar Surfacing: Cement, Aggregate, Latex			
Acrylic Coating (RE only): Ethylene Glycol, Ammonia	107-21-1 / 1336-21-6	<3 / <1	
This product may contain additives such as magnesium silicate (CAS #14807-96-6) generally at levels <1.5%. White coating (RE only) applied at factory, poses no additional serious hazards when installing in the field, except as noted below.			

SECTION III – PHYSICAL DATA

BOILING POINT (°F):	N.A.	PERCENT VOLATILE BY VOLUME:	N.A.
VAPOR PRESSURE (mmHg @ 20°C):	N.A.		
VAPOR DENSITY (AIR=1):	N.A.	EVAPORATION RATE (BUTYL ACETATE=1)	N.A.
SPECIFIC GRAVITY (H ₂ O=1):	0.027 to 0.064		
SOLUBILITY IN WATER:	None		
APPEARANCE AND ODOR:	Rigid Cellular Foam Board with mortar surfacing, no odor..		

SECTION IV – FIRE AND EXPLOSION HAZARDS

FLASH POINT (METHOD USED): 670°F (354°C) Flash Ignition Temperature, (ASTM D1929 Proc. B)
FLAMMABLE LIMITS: LFL: N.A., UFL; N.A.
EXTINGUISHING MEDIA: Fine water spray or foam.

SPECIAL FIRE FIGHTING PROCEDURES: If material is molten, do not apply direct water stream. Soak thoroughly with water to cool and prevent re-ignition. Cool surroundings with water to localize fire zone. Wear positive pressure, self contained breathing apparatus (SCBA) and protective fire fighting clothing.

UNUSUAL FIRE/EXPLOSION HAZARDS: Use adequate ventilation, and appropriate dust handling systems. Product should not be shipped, stored or used in virtually airtight spaces to prevent the build-up of combustible vapors.

SECTION V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE(S): N.A.

SIGNS/SYMPTOMS/EFFECTS OF OVEREXPOSURE: Dust/solid may cause eye irritation/corneal injury; Skin absorption unlikely; ingestion unlikely, may cause choking if swallowed; Inhaled dust may cause upper respiratory irritation, excessive exposure to ethyl chloride and chlorodifluoroethane may cause central nervous system depression, anesthetic effects and irregular heartbeat, however concentrations are expected to be well below those which cause these acute effects.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: None known, mechanical effects only

SKIN: Wash with water

INHALATION: Remove to fresh air, administer CPR, Oxygen should be administered, seek medical aid immediately.

INGESTIONS: If swallowed, seek medical attention. May cause gastrointestinal blockage. Do not give laxatives. Do not induce vomiting unless directed to do so by medical personnel.

SECTION VI – REACTIVITY DATA

CONDITIONS TO AVOID: Avoid direct sunlight. Max. use temperature = 165°F (73°C). Avoid temperatures >572°F (300°C). Product can decompose at elevated temperatures.

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPABILITY (MATERIALS TO AVOID): Oxidizing materials, aldehydes, amines, esters, liquid fuels and organic solvents.

HAZARDOUS DECOMPOSITION PRODUCTS: Does not normally decompose. Evolution of small amounts of hydrogen halides occurs when heated above 482°F (250°C). Under high heat, non-flaming conditions, small amounts of aromatic hydrocarbons such as styrene and ethylbenzene are generated. Additional hazardous decomposition products may include aromatic compounds, aldehydes, hydrogen bromide, hydrogen chloride, hydrogen fluoride and polymer fragments.

SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Pick up or sweep and place in suitable container.

WASTE DISPOSAL METHODS: Can be recycled, Otherwise incinerate in an approved waste-to-energy process with excess oxygen, or bury in approved landfill. Must meet all federal, state, and local regulations

SECTION VIII – SPECIAL PROTECTION INFORMATION

VENTILATION (TYPE) Local exhaust

RESPIRATORY PROTECTION: Use an air-purifying respirator, In dusty areas use an approved dust respirator

PROTECTIVE CLOTHING & EQUIPMENT: Body covering clothes

SECTION IX – SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Maintain good housekeeping. Layers of flammable dusts should not be permitted to accumulate. Storage, use and handling areas should be “NO Smoking” areas. Minimize sources of ignition, such as static buildup, heat, spark or flame. The polystyrene plastic foam product is combustible and should be protected from flame and high heat sources. It should be installed with code acceptable thermal barriers or used in approved alternative constructions.

Information presented herein has been compiled from sources considered to be dependable and current, and is accurate and reliable to the best of our knowledge, but is not guaranteed to be so. It is the user's responsibility to determine for himself the suitability of this information for his safe use of this product, and to adopt such proper safety precautions as may be necessary to provide adequate worker and plant protection.