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SAFETY DATA SHEET: HST - HUMIDISORB PACKETS

SECTION 1

IDENTIFICATION

Product Identifier: HST – Humidisorb Packets (Includes all “HST” prefix part numbers)
Manufacturer: A+ Corporation, LLC
41041 Black Bayou Rd.
Gonzales, LA 70737
Emergency Phone: (225) 644-5255
Recommended Use: Moisture control packet for electrical/electronic enclosures

SECTION 2

HAZARD INFORMATION

HAZCOM Standard Status: The granular absorbent is not hazardous according to the OSHA Hazard Communication Standard

Under normal conditions, the granules are enclosed in a pouch that does not allow skin or eye contact. The packet does not allow dust to escape.

If the packet is damaged from abnormal conditions and the granules are exposed, then:

Classification: When packet is damaged: Eye irritation – Category 2A

Signal word: Warning

Hazard Not Otherwise Classified (HNOC): None known

Pictogram:



Precautionary Statements:

Prevention: If packet is damaged, wear eye/face protection. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling

Response: Get medical attention if you feel unwell. If packet granules are

swallowed, rinse mouth. If packet granules are in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

Storage: Not applicable.

Disposal: Dispose of in accordance with all local, regional, national, and international regulations

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

The specific non-hazardous chemical identity has been withheld as a trade secret

<u>Name</u>	<u>%</u>
A proprietary non-hazardous granular absorbent contained in a vapor permeable pouch	100

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

SECTION 4 FIRST-AID MEASURES

Under normal conditions, the granules are enclosed in a pouch that does not allow skin or eye contact, or inhalation, or ingestion. The packet does not allow dust to escape.

If the packet is damaged from abnormal conditions and the granules are exposed, then:

Eye Contact: Check for and remove contact lenses. Get medical attention. In case of contact, flush eyes with plenty of water for at least 20 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is irregular provide oxygen by a trained professional.

Skin Contact: Wash hands and exposed skin with soap and plenty of water. Seek medical attention if skin irritation persists.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person.

Potential acute and delayed health effects and symptoms:

Headache.

Shortness of breath.

May cause gastrointestinal irritation with nausea, vomiting, and diarrhea.

Irritation – all routes of exposure. May cause eye irritation and possible damage.

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide this SDS document to physician. Physician should treat symptomatically

SECTION 5**FIRE-FIGHTING MEASURES**

Extinguishing media:

Suitable extinguishing media: Use water spray, dry chemical powder, or CO2

Unsuitable extinguishing media: None

Specific hazards arising from the substance: Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous thermal decomposition products: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides

Special protective actions for firefighters: Avoid inhaling gases, fumes, dust, mist, vapor, and for aerosols. Avoid contact with skin, eyes, and clothing. Dust deposits should not be allowed to accumulate on surfaces.

Special protective equipment for firefighters: Firefighters should wear appropriate protective equipment and self-contained apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6**ACCIDENTAL RELEASE MEASURES**

Under normal conditions, the granules are enclosed in a pouch that does not allow skin or eye contact. The packet does not allow dust to escape.

If the packet is damaged from abnormal conditions and the granules are exposed, then:

Personal precautions, protective equipment, and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational. Avoid dust formation.

Environmental precautions: Prevent from reaching drains, sewer, or waterway

Methods for cleaning up or taking up:	Wear protective eyewear and gloves. Avoid dust generation. Vacuum up and containerize. Wet product can create slippery condition. Always obey local regulations.
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SECTION 7	HANDLING AND STORAGE
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Under normal conditions, the granules are enclosed in a pouch that does not allow skin or eye contact. The packet does not allow dust to escape.

If the packet, is damaged from abnormal conditions and the granules are exposed, then:

Precautions for safe handling

Protective measures:	Avoid dust formation. Avoid contact with eyes, skin and clothing. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed.
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Conditions for safe storage:	Store in accordance with local regulations. Store in original sealed packet protected from direct sunlight in a cool and dry area.
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SECTION 8	EXPOSURE CONTROLS AND PERSONAL PROTECTION
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Under normal conditions, the granules are enclosed in a pouch that does not allow skin or eye contact. The packet does not allow dust to escape.

If the packet is damaged from abnormal conditions and the granules are exposed, then:

Occupational exposure limits:	No exposure limit value known
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Appropriate engineering controls:	Emergency eye wash stations should be available in the immediate vicinity of handling. If user operations generate dust use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
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Personal protection

General hygiene measures:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate
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techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection:	Although no exposure limit has been established for this product, the OSHA PEL for Particulates Not Otherwise Regulated (PNOR) of 15 mg/m ³ – total dust, mg/m ³ – respirable fraction is recommended. In addition, the ACGIH recommends 3mg/m ³ – respirable particles and 10 mg/m ³ – inhalable particles for Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS). The following respirator is recommended if airborne concentrations exceed the appropriate standard/guideline. HIOSH approved, air-purifying particulate respirator with N-95 filters.
Skin Protection:	Wear suitable protective clothing and gloves.
Eye/face protection:	Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH. Safety glasses or goggles are appropriate eye protection.
Medical Surveillance:	Not available

SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES
Form:	granules
Color:	white
Upper/lower flammability or explosive limits:	Not Available
Odor:	odorless
Vapor Density:	Not Available
pH:	Not Available
Relative Density:	0.4 g/cc
Melting point:	Not Available
Solubility in water:	insoluble (20° C)
Boiling Point:	Not Available
Flash Point:	Not Available
Evaporation rate:	Not Available
Flammability:	Not Available
Partition coefficient:	Not Available
Ignition temp:	Not Available
Decomposition temp:	Not Available
Viscosity:	Not Available

SECTION 10**STABILITY AND REACTIVITY**

Under normal conditions, the granules are enclosed in a pouch that does not allow skin or eye contact. The packet does not allow dust to escape.

If the packet is damaged from abnormal conditions and the granules are exposed, then:

Reactivity:	No specific test data related to reactivity available.
Chemical Stability:	Stable
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	Moisture sensitive. Avoid incompatible materials and excessive heat.
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	Carbon oxides, Sodium oxides

SECTION 11**TOXICOLOGY INFORMATION**

Under normal conditions, the granules are enclosed in a pouch that does not allow skin or eye contact. The packet does not allow dust to escape.

If the packet is damaged from abnormal conditions and the granules are exposed, then:

Information on the likely routes of exposure: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact:	May cause mechanical eye irritation (abrasion).
Inhalation:	May cause mechanical dust irritation to the respiratory system.
Skin contact:	May cause mechanical irritation (abrasion).
Ingestion:	May cause gastrointestinal irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:	May causes irritation with symptoms of reddening, tearing, stinging, and swelling.
Inhalation:	No specific data
Skin contact:	No specific data
Ingestion:	Symptoms of ingestion may include nausea, vomiting, and diarrhea.

Potential chronic health effectsShort term exposure

Potential immediate effects: Not available

Long term exposure

Potential delayed effects: Not available
Carcinogenicity: No additional information.
Mutagenicity: No additional information.
Teratogenicity: No additional information.
Developmental effects: No additional information.
Fertility effects: No additional information.

Information on toxicological effects

Acute toxicity: LD50 Oral Rat > 5000 mg/kg

Irritation/Corrosion: Classified as eye irritant

Sensitization: No additional information

Mutagenicity: No additional information

Carcinogenicity: No additional information

SECTION 12

ECOLOGICAL INFORMATION

Under normal conditions, the granules are enclosed in a pouch that does not allow skin or eye contact. The packet does not allow dust to escape.

If the packet is damaged from abnormal conditions and the granules are exposed, then:

Toxicity

Conclusion/Summary: Not available

Persistence and degradability

Conclusion/Summary: Not available

Bioaccumulative potential

Conclusion/Summary: Not available

Mobility in soil

Soil/water partition coefficient (Koc): Not available

Other adverse effects: No known significant effects or critical hazards.

SECTION 13

DISPOSAL CONSIDERATIONS

Disposal methods: The generation of waste should be avoided or minimized wherever possible. This material should be disposed of in a safe way. Waste disposal should be in accordance with existing federal, state,

provincial and or local environmental controls laws.

RCRA classification: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether the material contained in the product should be classified as a hazardous waste. (40 CFR 261.20-24)

SECTION 14

TRANSPORT INFORMATION

UN Number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class: Not regulated

Packing group:

Environmental hazard:

Transport in bulk:

Special precautions for user:

SECTION 15

REGULATORY INFORMATION

SARA 311/312: Acute

SARA Title III Section 302: None
Extremely Hazardous Substances

SARA Title III Section 313: None
Toxic chemicals

US EPA CERCLA: None
Hazardous Substances (40 CFR 302)

State regulations

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

California Prop 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

US Toxic Substances Control Act: Listed on the TSCA Inventory

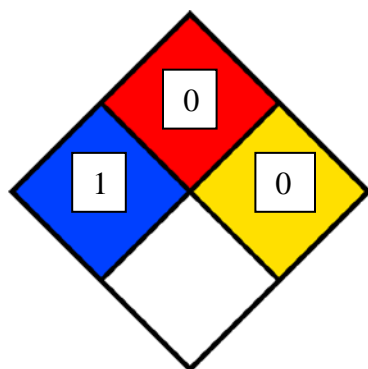
SECTION 16**OTHER INFORMATION**

Hazardous Material
Information System:

Health	1
Flammability	0
Physical hazards	0

0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

The customer is responsible for determining the PPE code for this material.



Blue = Health = 1
Red = Flammability = 1
Yellow = Physical Hazards = 0

0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Other Non-GHS Classification: D2B



HST - Humidisorb Packet

Self-Regenerating Desiccant



Desiccant Auto-Régénérant

Warning

Not hazardous according to OSHA HCS.

If packet is damaged and granules are exposed:

Wear eye/face protection.
Don't eat or drink or smoke and wash hands thoroughly while handling granules.

Attention

pas dangereux selon les OSHA HCS.

Si le paquet est endommagé et les granules sont exposés:

porter une protection oculaire / du visage,
ne pas manger ni boire, ni fumer et laver soigneusement les mains lors de la manipulation des granules.

SEE SAFETY DATA SHEET

VOIR LA FICHE DE DONNEES DE SECURITE



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