Product: Heat Paper

Applicable Product Numbers: Heat Paper-400, Heat Paper-420

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ARTICLE INFORMATION SHEET (AIS)

This Article Information Sheet (AIS) is provided as a courtesy in response to a customer request. A Safety Data Sheet (SDS) has not been prepared for this product(s) because it is an article. This AIS provides relevant information to consumers, OEMs and other users requesting a GHS-compliant SDS. Articles, such as batteries, are exempt from GHS SDS classification criteria. The GHS criteria is not designed or intended to be used to classify the physical, health and environmental hazards of an article.

SECTION 1: COMPANY INFORMATION

Manufacturer:

EaglePicher Technologies, LLC
PO Box 47
Joplin, MO 64802
417-623-8000

www.eaglepicher.com

Emergency Telephone Number: Chemtrec 1-800-424-9300

SECTION 2: ARTICLE INFORMATION

This product is exempt from hazard classification according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Description	
Recommended Use	Internal article of thermal battery
Applicable Product Numbers	Heat Paper-400, Heat Paper-420
Article Construction	
Heat Powder	Zirconium metal powder CAS 7440-42-8; Barium Chromate CAS 10294-40-3
Insulation	Aluminosilicate refractory fiber CAS 142844-00-6 Glass wool fiber insulation

SECTION 3: HEALTH AND SAFETY

Normal conditions of Use	Exposure to heat paper inside a sealed battery will not occur unless the battery leaks, is exposed to high temperatures, or is mechanically abused.
First Aid – Eye Contact	Flush open eye with running water for at least 15 minutes and then seek medical attention.
First Aid – Skin Contact	Immediately wash skin with soap and water, rinse thoroughly. Seek medical attention.
First Aid – Inhalation	Move to fresh air and seek medical attention. If required, provide artificial respiration.
First Aid – Ingestion	Seek immediate medical attention.
Precautionary Statements	Barium Chromate is a Category 1B carcinogen.

SECTION 4: FIRE HAZARDS AND FIREFIGHTING MEASURES

Fire Hazard	Material is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Material will intensify fire. Material is sensitive to static electricity and friction.
Extinguishing Media	Use water, dry chemical (ABC) or any other extinguishing media appropriate for the surrounding area. Do NOT use halon or CO2 extinguishing agents.
Firefighting Precautions	For large fires or fires in enclosed areas, wear self-contained breathing apparatus and protective turnouts. Byproducts of combustion include toxic metal oxide fumes, carbon monoxide, carbon dioxide, oxides of nitrogen, and aromatic and aliphatic hydrocarbons.

SECTION 5: HANDLING AND STORAGE

Handling	When handling dry heat paper, wear safety glasses, flame resistant clothing, leather gloves, face shield and fire resistant apron. Handle in a way to avoid creating dust. Avoid skin contact. Avoid breathing dust. Wash hands with soap and water after handling. Dry heat paper is sensitive to friction, static electricity and heat.
Accidental Release Measures	Shut off all nearby ignition sources. Apply water to material before cleaning spills. Handle in a manner that does not disperse dust into the air. Sweep up and place in bag for disposal. Avoid breathing dust.
Storage	Keep containers tightly sealed. Do NOT store with flammable liquids or other reducing agents, strong acids or bases, organic materials, metal powders. If practical, do not store large quantities of heat paper. Reduce fire risk by segregating into smaller amounts in separate storage containers.

SECTION 6: DISPOSAL CONSIDERATIONS

Collection and Proper Disposal	Dispose of used (or excess) heat paper in compliance with federal, state and local regulations.

SECTION 7: TRANSPORTATION INFORMATION

DOT (US) UN Number Proper Shipping Name

3179 Flammable Solid, Toxic, Inorganic, NOS (barium chromate, zirconium), 4.1 PGII

Subsidiary hazard: 6.1

SECTION 8: REGULATORY DEFINITIONS AND REQUIREMENTS - ARTICLES

USA OSHA 29 CFR 1910.1200(b)(6)(v)
USA TSCA 40 CFR 704.3; 710.2(3)(c); and [19 CFR 12.1209a)]
EU REACH Title 1 - Chapter 2 - Article 3(3)
GHS Section 1.3.2.1

Globally Harmonized System (GHS)	GHS SDS requirements and classification criteria do not apply to articles or products (such as batteries) that have a fixed shape, which are not intended to release a chemical. The article exemption is found in Section 1.3.2.1.1 of the GHS and reads: ***The GHS applies to pure substances and their dilute solutions and to mixtures. "Articles" as defined by the Hazard Communication Standard (29 CFR 1900.1200) of the OSHA of the USA, or by similar definition, are outside the scope of the system."***
Joint Article Management Promotion Consortium JAMP	An international standard that came into effect in March 2012 concerning declaration for electrical and electronic products. IEC 6274 replaces the defunct Joint Industry Guide – Material Declaration for Electro-technical Products (JIG-101-Ed 4.1 (May 21, 2012)
IEC 62474 Ed. 1.0 B:2012 Material Declaration for Products of and for the Electro-technical Industry	An international standard that came into effect in March 2012 concerning declaration for electrical and electronic products. IEC 6274 replaces the defunct Joint Industry Guide – Material Declaration for Electro-technical Products (JIG-101-Ed 4.1 (May 21, 2012)
IEC 62474 Database – Publically available online	The general principle for a substance to be included in the database as a declarable substance is: 1) existing national

(http://std.iec.ch/iec62474). Maintained by TC11: Environmental Standardization for electrical and electronic products and systems.	laws or regulations in an IEC member country that are relevant to Electro-technical products and that prohibit or restrict substances, or that have a labeling, communication, reporting or notification requirement, and 2) applying IEC 62474 criteria results in identification of declarable substance.
ANSI Z 400.1/Z19.1 (2010)	2.1 Scope: Applies to preparation of SDS for hazardous chemicals used under occupational conditions. Does not address how the standard may be applied to articles. It presents basic information on how to develop and write a SDS. Additional information is provided to help comply with state and federal environmental and safety laws and regulations. Elements of the standard may be acceptable for International use.

DISCLAIMER: This AIS is intended to provide a brief summary of our knowledge and guidance regarding the use of this article. The information contained here has been compiled from sources considered by EaglePicher Technologies, LLC to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations. This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. EaglePicher Technologies, LLC assumes no responsibility for injury to the recipient or third persons or for any damage to any property resulting from misuse of the product.