

PRESSTEK, LLC
ARTICLE SHEET

Product Name: Anthem™ and Anthem Pro™

Effective Date: 09/30/15

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Section 1. Product and Company Identification

Product Name: Anthem and Anthem Pro Thermal Anodized Aluminum Plates

Product Use and Description: No chemical processing, daylight safe offset wet offset printing plates for thermal laser imaging systems.

Supplier: Presstek, LLC
55 Executive Drive
Hudson, New Hampshire 03051-4922
U.S.A.

General inquiries: Contact Customer Service at 1-603-595-7000 or send e-mail to: info@Presstek.com.

Section 2. Composition/Information on Ingredients

Anthem thermal printing plates are chemically inert media. During laser ablation, a complex mixture of thermal byproducts is created that is not readily classified and which maybe emitted in the form of gases, vapor and aerosols.

Anthem thermal byproducts are captured and removed by the laser imager's recirculating exhaust ventilation system for contaminant control; i.e., the air management system (AMS). Under normal conditions of use, minute or trace amounts of thermal byproducts may be released into the workplace and should not pose a physical hazard or health risk to the user.

OSHA Regulatory Status

Anthem printing plates are manufactured articles which are excluded from the requirements of the OSHA Hazard Communication standard (29 CFR 1910.1200). Under normal conditions of use, the Anthem printing plates may emit minute or trace amounts of thermal byproducts and should not pose a physical hazard or health risk to workers. Potential thermal byproducts are emitted at concentrations substantially below recommended occupational health exposure limits. Overexposure to thermal byproducts should not occur in normal conditions of use and adverse health effects and symptoms are not expected. Under normal conditions of use, the user will not be exposed to contaminant concentrations that present a potential health risk.

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Section 3. Hazards Identification

Emergency Overview

Flat metal sheets with black coating that pose little or no immediate hazard for emergency response personnel.

Potential Health Effects

Under normal conditions of use with a properly functioning and maintained air management system, the user will be not exposed to thermal byproducts at concentrations that will cause adverse health effects

Inhalation: Nose, throat and respiratory tract irritation.

Eye Contact: Possible eye irritation.

Skin Contact: Possible skin irritation

Ingestion: Not applicable

Section 4. First Aid Measures

Inhalation: Remove to fresh air. Obtain medical attention if respiratory symptoms develop. Begin rescue breathing if breathing has stopped and CPR if there is no pulse. Get immediate medical attention.

Eye Irritation: Flush eyes with water or saline for 15 minutes. Consult a physician if irritation persists.

Skin Irritation: Wash skin with soap and water. Consult a physician if irritation persists.

Ingestion: Not applicable.

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Section 5. Fire Fighting Measures

Flash Point and Method: Not applicable

Flammable Limits in Air: Not applicable

Autoignition Temperature: Not known

Flammability Classification: Not flammable as shipped.
(Aluminum may burn vigorously in the presence of other burning materials such as magnesium).

Extinguishing Media: Dry chemical, carbon dioxide.

Fire Fighting Instructions: As in any fire, fire fighters should wear NIOSH approved pressure-demand, self-contained breathing apparatus (SCBA) and full protective gear.

Section 6. Accidental Release Measures

Not applicable.

Section 7. Handling and Storage

Handling: Handle with care, avoid contact with sharp edges.

Storage Conditions: 55 – 85° F (13 – 29° C); 30 – 60% RH. Keep away from ignition sources. Keep scrap dry.

Section 8. Exposure Controls/Personal Protection

Engineering Controls:

The use of local exhaust ventilation is required to control emissions released from Anthem plates. Always operate the laser imager with an active air management system (ASM); i.e., with the exhaust ventilation on.

Outdoor air requirements for general dilution ventilation as per ASHRAE Standard 62-1989 (Ventilation for Acceptable Indoor Air Quality) are recommended for commercial facilities with laser imagers regardless of the type of media that may be imaged. For office space, 20 cubic feet per minute (cfm) of outside air per person is recommended. For duplicating/printing rooms, 0.5 cfm of outside air per square foot of floor space is recommended.

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Personal Protective Equipment (PPE)

Eye/face protection: None required

Skin protection: None required

Respiratory protection: None required

General Hygiene Considerations: There are no known health hazards associated with this plate when used as recommended. The following general hygiene considerations are recognized as common, good industrial hygiene practices:

- Wash hands after use and before eating
- Avoid breathing thermal byproducts

Section 9. Physical and Chemical Properties

Appearance: Flat, rectangular sheet with black coating

Odor: None

Physical state: Solid sheet

pH: Not applicable

Vapor pressure: Not applicable

Vapor density: Not applicable

Boiling point: Not applicable

Melting point: 1150-1220°F; 621-660°C (aluminum)

Solubility in water: Not soluble

Density: 2.70-2.73 g/cm³ (aluminum)

Octanol/water coefficient: Not applicable

Section 10. Stability and Reactivity

Stability: Stable

Conditions to avoid: None known

Materials to avoid: None known

Hazardous polymerization: Will not occur

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Section 11. Toxicological Information

General Product Information: The potential thermal byproducts of this plate have not been tested as a whole for human or animal toxicity data.

Section 12. Ecological Information

This product has not been tested for environmental impact. No information is available regarding ecotoxicity or environmental fate.

Section 13. Disposal Considerations

The preferred disposal method is to recycle discarded plated as aluminum-containing scrap metal.

Alternatively, discarded plates may be disposed as solid waste according to local solid waste rules. Anthem plates are not a listed hazardous waste under RCRA and do not exhibit hazardous waste characteristics.

Section 14. Transport Information

This product is not regulated by the U.S. Department of Transportation (DOT).

This product is not regulated by the International Air Transport Association (IATA).

Section 15. Regulatory Information

Toxic Substances Control Act (TSCA)

This product is defined as an article and is exempt from the reporting requirements of TSCA.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

This product is defined as an article and is exempt from the reporting requirements of CERCLA.

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