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SAFETY DATA SHEET

Applies to part numbers: K-11072-250, K-11072-B50, K-11072-C25, R-04016-C40

Section 1 Product and company identification

Product name: **AdvanStain Scarlet Powder A**
Supplier: Advansta Inc.
Address: 2140 Bering Drive
San Jose, CA 95131

Recommended Use: For research use only.

Restrictions on Use: Not for clinical use. Not for internal use in animals or humans. Not for diagnostic use. Not for household or any other unintended use.

Section 2 Hazards identification

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|--------------------------|---|
| CLASSIFICATION | Skin Irritant 2. Eye Irritant 2. |
| SIGNAL WORD | Warning |
| HAZARD STATEMENTS | H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation. |
| PRECAUTIONARY STATEMENTS | P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

Section 3 Composition/Information on Ingredients

| Ingredient | CAS # | % |
|-------------|---------|-----|
| Citric acid | 77-92-9 | 100 |

There are no other ingredients present which within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous according to the OSHA Hazard Communications Standard (29 CFR 1910.1200) and require reporting in this section.

Section 4 First Aid Measures

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| ORAL EXPOSURE | Clean mouth with water and afterwards drink plenty of water |
| INHALATION EXPOSURE | Move to fresh air. If breathing becomes difficult, give oxygen. |
| DERMAL EXPOSURE | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. |
| EYE EXPOSURE | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| NOTES TO PHYSICIAN | Treat symptomatically. |

Section 5 Fire Fighting Measures

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| FLASH POINT | Not determined |
| FLAMMABILITY | Not flammable |
| SUITABLE EXTINGUISHING MEDIA | Use dry chemical, CO ₂ , water spray, or alcohol-resistant foam |
| HAZARDOUS COMBUSTION PRODUCTS | Carbon oxides. |
| EXPLOSION DATA | |
| Sensitivity to mechanical impact | Not sensitive |
| Sensitivity to static discharge | Not sensitive |
| PROTECTIVE EQUIPMENT AND PRECAUTIONS | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |
| SPECIFIC HAZARDS ARISING FROM THE CHEMICALS. | Dusts or fumes may form explosive mixtures in air. |

Section 6 Accidental Release Measures

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| PERSONAL PRECAUTIONS | Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation. |
| METHODS FOR CONTAINMENT | Prevent further leakage or spillage if safe to do so. |

METHODS FOR CLEANING UP

Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

Section 7 Handling and Storage

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| HANDLING | Handle in accordance with good industrial hygiene and safety practice. |
| STORAGE | Keep containers tightly closed in a dry, cool and well-ventilated place. |
| INCOMPATIBLE PRODUCTS | Bases. Reducing agents. Oxidizing agents. Nitrates. |

Section 8 Exposure Controls / PPE

EXPOSURE LIMITS

| | |
|-----------|-----|
| ACGIH TLV | N/A |
| NIOSH REL | N/A |
| OSHA PEL | N/A |

ENGINEERING MEASURES

Showers
 Eyewash stations
 Ventilation systems

PERSONAL PROTECTIVE EQUIPMENT

| | |
|--------------|--|
| Respiratory: | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. Maintain adequate ventilation. |
| Eye: | Safety goggles with side-shields. Avoid contact with eyes.. |
| Skin: | Wear protective gloves and clothing. |

GENERAL HYGIENE MEASURES:

Handle in accordance with good industrial hygiene and safety practice.

Section 9 Physical and chemical properties

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| Appearance: | White |
| Odor | No information available |
| Odor threshold: | No information available |
| Decomposition temperature °C : | No information available |
| Freezing point: | No information available |
| Initial boiling point: | No information available |
| Physical state: | Crystalline powder |
| pH | No data available |
| Flash point | Not determined |
| Autoignition temperature | No data available |
| Boiling point/range | No data available |
| Melting point/range | No data available |
| Flammability limits in air | Upper: No data available Lower: No data available |
| Explosive properties | No information available |
| Oxidizing properties | No information available |
| Evaporation rate | No data available |
| MMHG @ 37.8°C | No data available |
| Vapor density | No data available |
| Specific gravity | No data available |
| Solubility | No information available |
| Partition coefficient (n-octanol/water) | No data available |
| Viscosity | No information available |

Section 10 Stability and Reactivity

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|----------------------------------|---|
| STABILITY | Stable under recommended storage conditions. |
| INCOMPATIBLE PRODUCTS | Bases, reducing agents, oxidizing agents, nitrates. |
| CONDITIONS TO AVOID | None known based on information supplied. |
| HAZARDOUS DECOMPOSITION PRODUCTS | Carbon oxides. |
| HAZARDOUS POLYMERIZATION | Hazardous polymerization does not occur. |

Section 11 Toxicological Information

ACUTE TOXICITY Irritating to eye, skin and respiratory system.
CHRONIC TOXICITY No known effect based on information supplied
TARGET ORGAN EFFECTS None known

Section 12 Ecological Information

ECOTOXICITY The environmental impact of this product has not been fully investigated.

Section 13 Disposal Considerations

WASTE DISPOSAL Dispose of material in accordance with all federal, state, and local regulations.
CONTAMINATED PACKAGING Dispose of in accordance with all federal, state and local regulations.

Section 14 Transport Information

IATA Not regulated
DOT Not regulated

Section 15 Regulatory Information

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| REACH TITLE VII RESTRICTIONS | No information available |
| HCS Classification | |
| Dangerous substances | N/A |
| Organic Solvents | N/A |
| Harmful Substances Whose Names Are to be on the Label | N/A |
| Pollution Release and Transfer Registry (Class II) | N/A |
| Pollution Release and Transfer Registry (Class I) | N/A |
| Poison and Deleterious Substances Control Law | N/A |
| ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying | N/A |
| ISHA – Harmful Substances Requiring Permission | N/A |
| Toxic Chemical Classification Listing (TCCL) – Toxic Chemicals | N/A |
| Toxic Release Inventory (TRI) – Group I | N/A |
| Toxic Release Inventory (TRI) – Group II | N/A |
| INTERNATIONAL INVENTORIES | |
| TSCA | all components listed or exempted |
| EINECS/ELINCS | all components listed or exempted |
| ENCS | all components listed or exempted |
| IECSC | all components listed or exempted |
| KECL | all components listed or exempted |
| PICCS | all components listed or exempted |
| AICS | all components listed or exempted |
| US FEDERAL REGULATIONS | |
| SARA 313 | Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. |

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| SARA 311/312 Hazard Categories | Acute Health Hazard | Yes |
| | Chronic Health Hazard | No |
| | Fire Hazard | No |
| | Sudden Release of Pressure Hazard | No |
| | Reactive Hazard | No |
| Clean Water Act | This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) | |
| Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) | This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) | |
| STATE REGULATIONS | | |
| California Prop. 65 | This product does not contain any Proposition 65 chemicals. | |
| INTERNATIONAL REGULATIONS | | |
| Mexico – Grade | No information available | |
| WHMIS hazard class | E - Corrosive material | |

Section 16 Other information

Date of last revision: July 23, 2018

For R&D use only. Not for drug, household or other uses.

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.