MSDS Number: D5856 Effective Date: 02/26/07 Supercedes: 08/10/04 ==== CHEMTREC: 800-424-9300 (USA) MSDS MATERIAL SAFETY DATA SHEET ==== ------703-527-3887 From: Mallinckrodt Baker, Inc. (Outside USA & CANADA) 222 Red School Lane CANUTEC: 613-996-6666 Phillipsburg, NJ 08865 NOTE: Use CHEMTREC and CANUTEC Emergency Telephone Number: 908-859-2151 phone numbers only in the event of a chemical emergency. All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance. J. T. BAKER \_\_\_\_\_ 5-(p-DIMETHYLAMINOBENZYLIDENE)-RHODANINE 1. Product Identification Synonyms: P-Dimethylaminobenzalrhodanine CAS No: 536-17-4 Molecular Weight: 264.37 Chemical Formula: C12H12ON2S2 Product Codes: J431 2. Composition/Information on Ingredients CAS No Percent Hazardous Ingredient \_\_\_\_\_ \_\_\_\_\_ 5-(p-Dimethylaminobenzylidene)-rhodanin 536-17-4 90 - 100% Yes е 3. Hazards Identification Emergency Overview \_\_\_\_\_ WARNING! TOXICOLOGICAL PROPERTIES UNKNOWN. As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing. SAF-T-DATA(tm) Ratings (Provided here for your convenience) \_\_\_\_\_ Health Rating: 1 - Slight Flammability Rating: 0 - None Reactivity Rating: 1 - Slight Contact Rating: 1 - Slight Lab Protective Equip: GOGGLES; LAB COAT; PROPER GLOVES Storage Color Code: Green (General Storage)

\_\_\_\_\_ Potential Health Effects \_\_\_\_\_ The toxicological properties of this material have not been investigated. Inhalation: No information found. Ingestion: No information found. Skin Contact: No information found. Eye Contact: No information found. Chronic Exposure: No information found. Aggravation of Pre-existing Conditions: No information found. \_\_\_\_\_ 4. First Aid Measures Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty. Ingestion: If large amounts were swallowed, give water to drink and get medical advice. Skin Contact: Wash exposed area with soap and water. Get medical advice if irritation develops. Eye Contact: Wash thoroughly with running water. Get medical advice if irritation develops. 5. Fire Fighting Measures Fire: Not considered to be a fire hazard. Explosion: Not considered to be an explosion hazard. Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire. Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

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6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

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7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

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8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection: Gloves and lab coat, apron or coveralls.

Eye Protection: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: Boiling Point: Pink to red powder. Not applicable. Odor: Melting Point: No information found. 285 - 288C (545 - 550F) Solubility: Vapor Density (Air=1): Insoluble in water. No information found. Specific Gravity: Vapor Pressure (mm Hg): No information found. No information found. pН: Evaporation Rate (BuAc=1): No information found. No information found. % Volatiles by volume @ 21C (70F): 0 10. Stability and Reactivity Stability: Stable under ordinary conditions of use and storage. Hazardous Decomposition Products: Burning may produce carbon monoxide, carbon dioxide, sulfur oxides, and nitrogen oxides. Hazardous Polymerization: Will not occur. Incompatibilities: No information found. Conditions to Avoid: No information found. \_\_\_\_\_ 11. Toxicological Information No LD50/LC50 information found relating to normal routes of occupational exposure. -----\Cancer Lists\---------NTP Carcinogen---Ingredient Known Anticipated IARC Category -----\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ 5-(p-Dimethylaminobenzylidene)-rhoda No No None nine (536-17-4) 

12. Ecological Information Environmental Fate: No information found. Environmental Toxicity: No information found. \_\_\_\_\_\_ 13. Disposal Considerations Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements. 14. Transport Information Not regulated. \_\_\_\_\_ 15. Regulatory Information ------\Chemical Inventory Status - Part 1\-----TSCA EC Japan Australia Ingredient ----- --- ---- ----5-(p-Dimethylaminobenzylidene)-rhodanine Yes Yes No Yes (536 - 17 - 4)-----\Chemical Inventory Status - Part 2\-------Canada--Korea DSL NDSL Phil. Ingredient \_\_\_\_\_ \_\_\_\_\_ \_\_\_ \_\_\_ 5-(p-Dimethylaminobenzylidene)-rhodanine No Yes No Yes (536 - 17 - 4)-----\Federal, State & International Regulations - Part 1\-------SARA 302- -----SARA 313-----Ingredient RQ TPQ List Chemical Catg. \_\_\_\_\_ \_\_ \_\_ \_\_\_ \_\_\_ 5-(p-Dimethylaminobenzylidene)-rhodanine No No No No (536 - 17 - 4)-----\Federal, State & International Regulations - Part 2\-------RCRA- -TSCA-CERCLA 261.33 Ingredient 8(d) -----\_\_\_\_ \_\_\_\_ 5-(p-Dimethylaminobenzylidene)-rhodanine No No No (536 - 17 - 4)

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No Pressure: No SARA 311/312: Acute: No Chronic: No Fire: No (Pure / Solid) Reactivity: No Australian Hazchem Code: None allocated. Poison Schedule: None allocated. WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. \_\_\_\_\_ 16. Other Information NFPA Ratings: Health: 0 Flammability: 0 Reactivity: 0 Label Hazard Warning: WARNING! TOXICOLOGICAL PROPERTIES UNKNOWN. As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing. Label Precautions: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing dust. Keep container closed. Use with adequate ventilation. Label First Aid: Not applicable. Product Use: Laboratory Reagent. Revision Information: MSDS Section(s) changed since last revision of document include: 3. Disclaimer: Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION. Prepared by: Environmental Health & Safety

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