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TITAN YELLOW

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION:

Synonyms: C.I. 19540; Clayton Yellow; Direct Yellow 9; Thiazol Yellow G

CAS No.: 1829-00-1

Molecular Weight: 695.73

Molecular Formula: C₂₈H₁₉N₅O₆S₄Na₂

2. COMPOSITION, INFORMATION ON INGREDIENTS:

| <u>Chemical Name</u> | <u>CAS No</u> | <u>Percent</u> | <u>Hazardous</u> |
|----------------------|---------------|----------------|------------------|
| Titan Yellow | 1829-00-1 | ca. 100% | No |

3. HAZARDS IDENTIFICATION:

Emergency Overview

Appearance: Rust-brown powder. Light sensitive. **Caution!** May be harmful if swallowed. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. The toxicological properties of this material have not been fully investigated.

Target Organs: None known.

Potential Health Effects

Eyes: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting, and diarrhea. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause irritation of the mucous membranes. The toxicological properties of this substance have not been fully investigated.

Chronic: No information found.

4. FIRST AID MEASURES:

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.

Skin: Flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists..

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES:

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic fumes and gases may be generated by thermal decomposition or combustion.

Extinguishing Media: In case of fire, use water spray, dry chemical, chemical foam, or alcohol-resistant foam.

Flash Point: Not applicable.

Auto-ignition Temperature: Not applicable.

Explosion Limits, Lower / Upper: Not available.

NFPA Rating: (estimated) Health: 1, Flammability: 0, Instability: 0.

6. ACCIDENTAL RELEASE MEASURES:

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

7. HANDLING AND STORAGE:

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Store protected from light. Do not breathe dust.

Storage: Keep container closed when not in use. Store protected from light. Store in a cool, dry, well-ventilated area away from incompatible materials.

8. EXPOSURE LIMITS, PERSONAL PROTECTION:

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

| <u>Chemical Name</u> | <u>ACGIH</u> | <u>NIOSH</u> | <u>OSHA Final PELs</u> |
|-----------------------------|---------------------|---------------------|-------------------------------|
| Titan Yellow | None listed | None listed | None listed |

OSHA Vacated PELs: Titan Yellow: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN149 must be followed whenever workplace conditions warrant a respirator's use.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Powder.

Appearance: Rust-brown.

Odor: None reported.

pH: Not available.

Vapor Pressure: Not available.

Vapor Pressure: Not available.

Evaporation Rate: Not available.

Boiling Point: Not available.

Freezing/Melting Point: Not available.

Decomposition Temperature: Not available.

Solubility: Soluble in water and slightly soluble in ethanol.

10 STABILITY AND REACTIVITY:

Chemical Stability: Stable under normal temperatures and pressures. May discolor on exposure to light.

Conditions to Avoid: Incompatible materials, light, strong oxidants.

Incompatibilities with Other Materials: Strong oxidizing agents, direct light.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide.

Hazardous Polymerization: Has not been reported.

11. TOXICOLOGICAL INFORMATION:

RTECS#: CAS# 1829-00-1: DL423000

LD50/LC50: Not available.

Carcinogenicity: CAS# 1829-00-1: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Neurotoxicity: No information available.

Mutagenicity: No information available.

Other Studies: No information available.

12. ECOLOGICAL INFORMATION:

No information available.

13. DISPOSAL CONSIDERATIONS:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3.

Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

14. TRANSPORT INFORMATION:

No information available.

15. REGULATORY INFORMATION:

US FEDERAL

TSCA: CAS# 1829-00-1 is listed on the TSCA inventory.

Health and Safety Reporting List: None of the chemicals are on the Health and Safety Reporting List

Chemical Test Rule: None of the chemicals in this product are under a Chemical Test Rule.

Section 12b: None of the chemicals are listed under TSCA Section 12b.

SARA

Section 302 (RQ) and Section 302 (TPQ): None of the chemicals in this product have an RQ or TPQ.

SARA Codes: CAS# 1829-00-1: reactive.

Section 313: No chemicals are reportable under Section 313.

Clean Air Act: This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this substance are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.

State: CAS# 1829-00-1 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals are listed.

EUROPEAN / INTERNATIONAL REGULATIONS

European Labeling in Accordance with EC Directives.

Hazard Symbols: XN

Risk Phrases: R 22 Harmful if swallowed.

Safety Phrases: S 24/25 Avoid contact with eyes and skin.

WGK (Water Danger/Protection): CAS# 1829-00-1: No information found.

Canada DSL/NDSL List: CAS# 1829-00-1 is listed on Canada's DSL List.

Canada WHMIS: This product has a WHMIS classification of D1B.

Canadian Ingredient Disclosure List

Exposure Limits

16. DISCLAIMER INFORMATION:

DISCLAIMER:

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