

SAFETY DATA SHEET

ORCEIN

Catalog Numbers: R-91

Company Identification: ROWLEY BIOCHEMICAL

10 ELECTRONICS AVENUE

DANVERS, MA 01923

for information, call: 978-739-4883

Emergency Number: 800-424-9300

For CHEMTREC assistance, call: 800-424-9300

1. PRODUCT IDENTIFICATION:

Synonyms: Natural Red 28

CAS No.: 1400-62-0

Molecular Weight: 500.51

Chemical Formula: C₂₈H₂₄N₂O₇

2. HAZARDS IDENTIFICATION:

Emergency Overview

Appearance: Purple - dark brown-black crystalline powder. **CAUTION!** May cause eye and skin irritation. May cause respiratory and digestive tract irritation. The toxicological properties of this material have not been fully investigated.

GHS Classification

- Acute toxicity, Oral (Category 4)



Pictogram

Signal word Warning

Hazard statement(s)

- H302 Harmful if swallowed.

Precautionary statement(s)

- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P301 + P312 IF **SWALLOWED**: Call a **POISON CENTER** or doctor/ physician if you feel unwell.
- P330 Rinse mouth.

HMIS Classification

Health hazard: 1

Flammability: 0

Physical hazards: 0

NFPA Rating

Health hazard: 1

Fire: 0

Reactivity Hazard: 0

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: No information found.

3. COMPOSITION, INFORMATION ON INGREDIENTS:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Percent</u>	<u>Hazardous</u>
Orcein	1400-62-0	95%	No

4. FIRST AID MEASURES:

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

Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. **Never** give anything by mouth to an unconscious person. Get medical aid.

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. FIRE FIGHTING 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.

Extinguishing Media: Use an agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Upper: Not available

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. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. EXPOSURE CONTROLS, 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 PEL's</u>
Orcein	None listed	None listed	None listed

OSHA Vacated PELs: Orcein: 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 29 CFR 1910.133 or European Standard EN 166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Crystalline powder

Appearance: Purple - dark brown-black

Odor: Not available.

Freezing/Melting Point: Not available.

pH: Not available.

Vapor Pressure (mm Hg): Not available.

Vapor Density (Air = 1): Not available.

Evaporation Rate: Not applicable.

Viscosity: Not available.

Boiling Point: Not available.

Decomposition Temperature: Not available.

Solubility: Insoluble.

Specific Gravity/Density: Not available.

10. STABILITY AND REACTIVITY:

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: Incompatible materials, oxidizers.

Incompatibilities with Other Materials: Strong oxidizing agents.

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

Hazardous Polymerization: Has not been reported.

11. TOXICOLOGICAL INFORMATION:

RTECS: CAS# 1400-62-0: Unlisted.

LD50/LC50: CAS# 1400-62-0: Not available.

Carcinogenicity: CAS# 1400-62-0: 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:

Environmental Fate: No information found..

Environmental Toxicity: No data found.

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 REGULATIONS:

Not regulated.

15. REGULATORY INFORMATION:

US FEDERAL

TSCA CAS# 1400-62-0 is listed on the TSCA inventory.

Health & Safety Reporting List None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules 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.

TSCA Significant New Use Rule None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ) & Section 302 (TPQ) None of the chemicals in this material/products have a RQ or TPQ.

Section 313 This material contains Methyl Green, zinc chloride salt (listed as Zinc), 100%, (CAS# 7114-03-6) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

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 product 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# 7114-03-6 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

EUROPEAN/INTERNATIONAL REGULATIONS

European Label EUROPEAN/INTERNATIONAL REGULATIONS

European Labeling in Accordance with EC Directives

Hazardous Symbols: XN

Risk Phrases: R 22 Harmful if swallowed.

R 36/38 Irritating to eyes and skin.

Safety Phrases: S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection) CAS# 1400-62-0: No information available.

Canada - DSL/NDSL CAS# 1400-62-0 is listed on Canada's DSL List.

Canada - WHMIS: Not available.

CAS# 1400-62-0 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

Section 16 - Additional Information

MSDS Creation Date: 10/15/12

Revision #1. 2/7/14 CF

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