

Material Safety Data Sheet

Candurin® Red Sparkle

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Candurin® Red Sparkle

Product Family:

- 1) Candurin® Blue Shimmer
- 2) Candurin® Brown Amber
- 3) Candurin® Gold Light
- 4) Candurin® Gold Lustre
- 5) Candurin® Gold Sheen
- 6) Candurin® Gold Shimmer
- 7) Candurin® Gold Sparkle
- 8) Candurin® Green Shimmer
- 9) Candurin® Orange Amber
- 10) Candurin® Red Amber
- 11) Candurin® Red Lustre
- 12) Candurin® Red Shimmer
- 13) Candurin® Red Sparkle
- 14) Candurin® Silver Fine
- 15) Candurin® Silver Lustre
- 16) Candurin® Silver Sheen
- 17) Candurin® Silver Sparkle.

Synonyms: PEARL EFFECT COLOR - SILVER COLORS - INTERFERENCE COLORS - GOLD COLORS - IRON OXIDE COLORS - MINERAL PEARL EFFECTS - Candurin® Tablets - Candurin® Capsules - Candurin® Anti-Counterfeiting.

Chemical Nature: Mica coated with ferric oxide.

Relevant identified uses of the substance or mixture:

Food and beverage, cosmetics, nutraceuticals, supplements, laboratory and research. Not yet permitted for pharma usage in Canada.

Distributed By:

Ingredient Depot

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Concentration	Ingredients	Concentration
Mica (muscovite) CAS#: 12001-26-2	>= 70 % - < 90 %	Diiron trioxide CAS#: 1309-37-1	>= 10 % - < 30 %

Product Name	Concentration
Candurin® Red Sparkle	Exact percentages are being withheld as a trade secret.

Notes: No additional remark.

3. HAZARDS IDENTIFICATION

GHS-Labeling:

Not a dangerous substance according to GHS.

Route of Entry:

Eye contact. Skin contact. Inhalation. Ingestion.

Skin Contact:

May cause mild irritation. Avoid skin contact.

Eye Contact:

May cause irritation (tears, blurred vision, and redness).

Ingestion:

Not expected to be a health hazard.

Inhalation:

None known. Avoid inhalation.

Medical Conditions Affected by Exposure: Pre-existing skin disorders may be aggravated by this material.

Signs of Over Exposure: No additional remark.

Other hazards: None known.

4. FIRST AID MEASURES

Eye Contact:

After eye contact: rinse out with plenty of water.

Skin Contact:

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Inhalation: After inhalation: fresh air.

Ingestion:

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed:

We have no description of any toxic symptoms.

Indication of any immediate medical attention and special treatment needed:

No information available.

5. FIRE FIGHTING MEASURES

Extinguishing Media**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special Hazards Arising From The substance or Mixture:

Not combustible. Ambient fire may liberate hazardous vapors.

Advice for firefighters**Special protective equipment for fire-fighters**

In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

Environmental precautions: No special precautionary measures necessary.

Methods and materials for containment and cleaning up: Observe possible material restrictions (see section 7 and 10). Take up dry. Dispose properly. Clean up affected area. Avoid generation of dusts.

7. HANDLING AND STORAGE

Handling Procedures:

Avoid contact with eyes and skin. Avoid inhalation and ingestion. Use under well ventilated conditions. If airborne dust is generated, eliminate all sources of ignition that may come into contact with the dust. Wash skin thoroughly after handling and before eating or smoking. Wash with soap and water.

Conditions for safe storage, including any incompatibilities: Tightly closed. Dry.

Storage temperature: No restrictions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit(s)

Ingredients

Basis	Value	Threshold limits	Remark
General threshold limit value for dust			
Z1A	Time Weighted Average (TWA):	5 mg/m ³	Form of exposure: Respirable fraction.
	Time Weighted Average (TWA):	15 mg/m ³	Form of exposure: Total dust.
	Time Weighted Average (TWA):	50millions of particles per cubic foot of air	Form of exposure: Total dust.
	Time Weighted Average (TWA):	15millions of particles per cubic foot of air	Form of exposure: Respirable fraction.
	Time Weighted Average (TWA):	15 mg/m ³	Form of exposure: Total dust.
	Time Weighted Average (TWA):	5 mg/m ³	Form of exposure: Respirable fraction.
OSHA_TRANS	PEL:	5 mg/m ³	Form of exposure: Respirable fraction.
	PEL:	15 mg/m ³	Form of exposure: Total dust.
ACGIH	Time Weighted Average (TWA):	10 mg/m ³	Form of exposure: Inhalable particles.
	Time Weighted Average (TWA):	3 mg/m ³	Form of exposure: Respirable particles.
Mica (muscovite) 12001-26-2			
ACGIH	Time Weighted Average (TWA):	3 mg/m ³	Form of exposure: Respirable fraction.
NIOSH/GUIDE	Recommended Exposure Limit (REL):	3 mg/m ³	Form of exposure: Respirable.
Z1A	Time Weighted Average (TWA):	3 mg/m ³	Form of exposure: Respirable dust.
	Time Weighted Average (TWA):	20millions of particles per cubic foot of air	
Diiron trioxide 1309-37-1			
ACGIH	Time Weighted Average (TWA):	5 mg/m ³	Form of exposure: Respirable fraction.
NIOSH/GUIDE	Recommended exposure limit (REL):	5 mg/m ³	Form of exposure: Dust and fume. Expressed as: as F
OSHA_TRANS	PEL:	10 mg/m ³	Form of exposure: Fume.
Z1A	Time Weighted Average (TWA):	10 mg/m ³	Form of exposure: Fume.

Engineering measures:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Individual protection measures:

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

Hygiene measures:

Change contaminated clothing. Wash hands after working with substance.

Eye/face protection: Safety glasses

Hand protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Respiratory protection:

Required when dusts are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Powder.
Color: Reddish-violet.
Odor: Odorless.
Odour threshold (ppm): Not applicable.
pH: 6.0 - 10.0 at 100 g/l 68 °F (20 °C) (slurry)
Melting point: No information available.
Boiling point: No information available.
Flash point: Not applicable.
Evaporation rate: No information available.
Flammability (solid, gas): The product is not flammable.
Lower explosion limit: No information available.
Upper explosion limit: No information available.
Vapor pressure: No information available.
Relative vapor density: No information available.
Density: 3.0- 3.2 g/cm³ at 68 °F (20 °C).
Relative density: No information available.
Water solubility: at 68 °F (20 °C) insoluble.
Partition coefficient: n-octanol/water: No information available.
Autoignition temperature: No information available.
Decomposition temperature: No information available.
Viscosity, dynamic: No information available.
Explosive properties: Not classified as explosive.
Oxidizing properties: None.
Bulk density: 210 - 250 kg/m³
Particle size: Particle size 10.0 - 150.0 µm.

10. STABILITY AND REACTIVITY

Reactivity: See below.
Chemical stability: The product is chemically stable under standard ambient conditions (room temperature).
Possibility of hazardous reactions: No information available.
Conditions to Avoid: No information available.
Incompatible materials: No information available.
Hazardous decomposition products: No information available.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Likely route of exposure:

Inhalation, Eye contact, Skin contact, Ingestion

Target Organs:

Respiratory system

Specific target organ systemic toxicity - single exposure:

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure:

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard:

Regarding the available data the classification criteria are not fulfilled.

Carcinogenicity:

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
ACGIH	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

11. TOXICOLOGICAL INFORMATION

Further information:

The results of animal experiments using pigments of this type indicate no toxicologically relevant properties. Since the substance is poorly absorbed, no hazardous properties are to be anticipated. Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.

The individual test results were as follows: skin tolerance (rabbit): no irritant effect; eye irritation test (rabbit): no irritant effect; sensitization test (guinea pig): no sensitizing potential; subchronic toxicity (rat): no findings up to 20,000 ppm. LD50 (oral, rat): not determinable; all animals still alive after 15,000 mg/kg.

Chronic toxicity (rat): 5 % of the product added to the feed for a period of 2.5 years did not show any toxicological changes or carcinogenic effects in animals.

LC50 (inhalational, rat): male animals: between 4.6 and 14.9 mg/l air; female animals: > 14.9 mg/l air.

The product did not show any genotoxic effects in the micronucleus test carried out in rats in concentrations of up to 2000 mg/kg (limit test).

Handle in accordance with good industrial hygiene and safety practice.

Ingredients:

mica (muscovite)

No information available.

Diiron trioxide

Germ cell mutagenicity

Genotoxicity in vitro

Ames test

Result: negative

(Lit.)

12. ECOLOGICAL INFORMATION

Ecotoxicity:

No information available.

Persistence and degradability:

No information available.

Bioaccumulative potential:

No information available.

Mobility in soil:

No information available.

Additional ecological information:

No ecological problems are to be expected when the product is handled and used with due care and attention.

Ingredients

mica (muscovite)

No information available.

Diiron trioxide

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Waste Method: The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

TDG (Canada): Not classified as dangerous in the meaning of transport regulations.

Land Transport (DOT): Not classified as dangerous in the meaning of transport regulations.

Air Transport (IATA): Not classified as dangerous in the meaning of transport regulations.

Sea Transport (IMDG): Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

United States of America:

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

DEA List I: Not listed.

DEA List II: Not listed.

US State Regulations:

Massachusetts Right To Know

Ingredients

mica (muscovite)

Diiron trioxide

Pennsylvania Right To Know

Ingredients

mica (muscovite)

Diiron trioxide

New Jersey Right To Know

Ingredients

mica (muscovite)

Diiron trioxide

California Prop 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Notification status:

TSCA: All components of the product are listed in the TSCA-inventory.

DSL: All components of this product are on the Canadian DSL.

KOREA: Not in compliance with the inventory.

WHMIS Classification: This is not a WHMIS controlled product.

16. OTHER INFORMATION

Additional Information:

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Disclaimer:

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Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from your local Ingredient Depot Sales Office.

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