

Distributed by: Laguna Clay Company 14400 Lomitas Ave City of Industry, CA 91746 1-800-4Laguna info@lagunaclay.com www.lagunaclay.com



Ferro Corporation Performance Pigments & Colors 251 West Wylie Ave. Washington, PA 15301 USA

Emergency telephone number CHEMTREC: 1-800-424-9300

CHEMTREC (outside U.S.): 1-703-527-3887

Phone Number: 1-724-223-5900

Date of Preparation: 09/14/2011

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: 41715A Turquoise Spersastain

DRM100LB

Chemical Family: Inorganic Pigment

CAS-No.: Mixture Product Code: 1133476

2. HAZARDS IDENTIFICATION

Emergency Overview

Caution

May cause respiratory tract, eye and skin irritation. Avoid dust formation. May cause physical irritation. Contains crystalline silica which causes silicosis and lung cancer.

		HIVIS	NFPA /04
Color:	Blue-green	1*	1
Physical state:	Powder	0	0
Odor:	Odorless	0	0
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Potential Health Effects

Principle routes of exposure: Inhalation, ingestion, skin and eye contact.

Eye contact: May cause slight irritation.

Skin contact: Prolonged skin contact may cause skin irritation and/or dermatitis.

Inhalation: May cause irritation of respiratory tract.

Ingestion: May irritate digestive tract.

Chronic toxicity: No known effects under normal conditions of use. Excessive inhalation of dust may cause

chemical pneumonitis, cyanosis, and pulmonary edema. Respirable crystalline sifica has been classified as a Group I (sufficient evidence in humans for carcinogenicity) carcinogenic by IARC and is listed by NTP as a substance which may reasonably be anticipated to be a

carcinogen. Long term inhalation causes lung damage (silicosis and cancer).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Сотроленts	CAS Number	Weight %
Zirconium vanadium blue zircon	68186-95-8	80 - 90%
Quartz silica	14808-60-7	5 - 10%
Silica, fumed	112945-52-5	1 - 5%

This product contains trace quantities of naturally occurring radioactive uranium, thorium and radium (<0.02% total). Overexposure by inhalation to respirable dusts containing uranium, thorium and radium may cause cancer, however, observance of the OSHA limit for respirable dusts of 5 mg/m³ will ensure the use of this product to be well below the regulatory limits established for these components.

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4. FIRST AID MEASURES

Eye contact: Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation

develops.

Skin contact: Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing

before re-use. If symptoms persist, call a physician.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion: Drink plenty of water. Do not induce vomiting. Consult a physician if necessary.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash point (°C): Non combustible

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment. The product itself does not burn.

Hazardous decomposition products: Metal fumes.

Special protective equipment for

firefighters:

As in any fire, wear self-contained breathing apparatus (pressure-demand, NIOSH approved or

equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid dust formation. Evacuate area of all unnecessary personnel. Avoid contact with skin,

eyes and clothing. Wear personal protective equipment. Ensure adequate ventilation.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not flush

into surface water or sanitary sewer system. Prevent product from entering drains.

Methods for cleaning up: Wear personal protective equipment. Sweep up and shovel into suitable containers for

disposal. Clean contaminated surface thoroughly. Dispose of promptly.

7. HANDLING AND STORAGE

Handling:

Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Avoid contact with skin, eyes and clothing. Wash hands thoroughly before eating, drinking or smoking. In case of insufficient ventilation, wear suitable respiratory equipment. Provide appropriate exhaust ventilation at places where dust is formed.

Storage:

Keep container tightly closed in a dry and well-ventilated place. Store in original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

Minimize exposure in accordance with good hygiene practice.

Сотроленts	OSHA	ACGIH
Zirconium vanadium blue zircon	5 mg/m³ TWA Zr	10 mg/m³ STEL Zr
	•	5 mg/m³ TWA Zr
Quartz silica	Listed	0.025 mg/m3 TWA respirable fraction

Engineering measures: Provide appropriate exhaust ventilation at machinery and at places where dust or fumes can

be generated. Ensure adequate ventilation, especially in confined areas.

Eye protection: Safety glasses with side-shields.

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Lightweight protective clothing. Skin and body protection:

Impervious gloves. Hand protection:

Use NIOSH approved respirator when ventilation is inadequate. In case of insufficient Respiratory protection:

ventilation wear suitable respiratory equipment . Seek professional advise prior to respirator selection and use. NIOSH-approved respirators should be worn where engineering controls

and work practices do not reduce exposure to or below the PEL.

Water solubility:

Wash hands before breaks and at the end of workday. Contaminated work clothing should not Hygiene measures:

be allowed out of the workplace. Ensure that eyewash stations and safety showers are

proximal to the work-station location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color: Blue-green Physical state: Powder

Odor: Odorless No data available Molecular weight: No data available No data available Boiling point/range (°C): pH: Melting point/range (°C): No data available No data available Specific gravity (Water =1): Vapor density: Non-volatile Vapor pressure : No data available

Non-volatile Evaporation Rate (Water = 1) VOC content (%) 0

10. STABILITY AND REACTIVITY

Stable at normal conditions. Stability:

Polymerization Will not occur.

Hazardous decomposition products: None under normal use.

Materials to avoid: None known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Information given is based on data on the components and the toxicology of similar products

Chronic Toxicity: Contains crystalline silica which causes silicosis and lung cancer.

None known.

Carcinogenic Effects: Respirable crystalline silica has been classified as a Group I (sufficient evidence in humans for

> carcinogenicity) carcinogenic by IARC and is listed by NTP as a substance which may reasonably be anticipated to be a carcinogen. Crystalline silica is also a known cause of silicosis, a non-cancerous lung disease caused by excessive exposure to crystalline silica.

Target Organ Effects: Silica: Respiratory system. Vanadium: Eyes, respiratory system.

Component information, if any, is listed below

Quartz silica

Conditions to avoid

LD50s and LC50s: Oral LD50 (Rat) = 500 mg/kg

OSHA - Select Carcinogens: Present

NTP: Known Human Carcinogen

IARC - Group 1: Listed

Silica, fumed

LD50s and LC50s: Oral LD50 (Rat) = 3160 mg/kg insoluble

12. ECOLOGICAL INFORMATION

Aquatic toxicity: No data is available on the product itself. Information given is based on data on the

components and the ecotoxicology of similar products.

Not determined Persistence and degradability:

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused

products:

Waste must be disposed of in accordance with federal, state and local environmental control

PARTK:

regulations. Where possible recycling is preferred to disposal or incineration.

14. TRANSPORT INFORMATION

DOT (U.S.)

Proper shipping name: Not regulated.

TDG (Canada)

Proper shipping name: Not regulated.

15. REGULATORY INFORMATION

U.S. Regulations:

TSCA: Not subject to TSCA 12(b) Export Notification

SARA 313:

5/116 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 /	
Components	U.S CERCLA/SARA - Section 313 - Emission Reporting
Vanadium compounds (1 - 5%)	1.0 % de minimis concentration

State Regulations

This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and California Prop 65 supplier notification requirements. Substances that are subject to notification requirements, if any, are listed below.

Vanadium compounds	Listed (PARTK)
Components	NJRTK:

Components	NJRTK:
Quartz silica	Listed (NJRTK)
Vanadium compounds	Listed (NJRTK)

Components	State Regulation - CA Prop65
Quartz silica	Carcinogen

Canadian WHMIS

WHMIS hazard class: D2B Toxic materials D2A Very toxic materials

Canadian Ingredient Disclosure List (IDL):

Components

Components	Canada - WHMIS Ingredient Disclosure:
Quartz silica	1
Vanadium compounds	1

International Inventories

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Canadian DSL/NDSL list All ingredient(s) are listed on the DSL or NDSL

EC-No.

Listed or exempt.

Philippines (PICCS): Listed.

Japan (ENCS): Listed or exempt.

Korea (KECL): Listed. Listed. China (IECS): Australia (AICS): Listed. New Zealand (NZIoC): Listed.

16. OTHER INFORMATION

For Industrial Use Only.

Prepared by: Ferro Technical Center

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.

End of Safety Data Sheet



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