

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

# MATERIAL SAFETY DATA SHEET

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

Product Name:	
Chemical Family:	
CAS-No.:	
Product Code:	

C-464EZL YELLOW Inorganic Pigment Mixture 1360760

100

Date of Preparation: 12/20/2011

# 2. HAZARDS IDENTIFICATION

# **Emergency Overview**

Caution May cause respiratory tract, eye and skin irritation.

		HMIS	NFPA 704
Color:	Yellow	1	1
Physical state:	Powder	0	0
Odor:	None	0	0
0001.	None	В	

#### **Potential Health Effects**

Principle routes of exposure:	Inhalation, ingestion, skin and eye contact.
Eye contact:	Contact with eyes may cause irritation.
Skin contact:	Prolonged skin contact may cause skin irritation.
Inhalation:	Over-exposure by inhalation may cause respiratory irritation.
Ingestion:	May irritate digestive tract.
Chronic toxicity:	Excessive inhalation of fumes or dust may cause chemical pneumonitis, cyanosis, and pulmonary edema.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %
Vanadium zirconium yellow baddelevite	68187-01-9	60 - 70%
Zirconium iron pink zircon	68412-79-3	10 - 20%
Zircon praeseodymium yellow	68187-15-5	10 - 20%
Silica, fumed	112945-52-5	0.5 - 1%

This product contains trace quantities of naturally occuring 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/m<sup>3</sup> will ensure the use of this product to be well below the regulatory limits established for these components.

## 4. FIRST AID MEASURES

Eye contact:

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

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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:	Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.	
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapors. Heavy metal compounds.	
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 contact with skin, eyes and clothing. Wear personal protective equipment. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.	
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.	

# Methods for cleaning up:Wear personal protective equipment. Sweep up and shovel into suitable containers for<br/>disposal. Clean contaminated surface thoroughly. Dispose of promptly.

7. HANDLING AND STORAGE

#### Handling:

Handle in accordance with good industrial hygiene and safety practice. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Do not eat, drink, or smoke in areas of use or storage. Do not take internally. Wash thoroughly after handling. Use only in well-ventilated areas. Avoid prolonged contact with eyes, skin and clothing.

#### Storage:

Keep in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure** limits

Additional Exposure Info. Minimize exposure in accordance with good hygiene practice.

Components	OSHA	ACGIH
Vanadium zirconium yellow	5 mg/m <sup>3</sup> TWA Zr	10 mg/m <sup>3</sup> STEL Zr
badđelevite		5 mg/m³ TWA Zr
Zirconium iron pink zircon	5 mg/m <sup>3</sup> TWA Zr	10 mg/m <sup>3</sup> STEL Zr
		5 mg/m <sup>3</sup> TWA Zr
Zircon praeseodymium yellow	5 mg/m <sup>3</sup> TWA Zr	10 mg/m <sup>3</sup> STEL Zr
	·	5 mg/m <sup>3</sup> TWA Zr

Engineering measures: Provide appropriate exhaust ventilation at machinery and at places where dust or fumes can be generated. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Eye protection:

Safety glasses with side-shields.

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Skin and body protection:	Lightweight protective clothing. Keep working clothes separately. Remove and wash contaminated clothing before re-use.
Hand protection:	Impervious gloves.
Respiratory protection:	NIOSH-approved respirators should be worn where engineering controls and work practices do not reduce exposure to or below the PEL. Wear NIOSH approved respirator to limit exposure to NORM. Seek professional advice prior to respirator selection and use. In case of insufficient ventilation wear suitable respiratory equipment.
Hygiene measures:	Wash hands before breaks and at the end of workday. Wash contaminated clothing before re- use.
	9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Yellow
Odor:	None
Boiling point/range (°C):	No data available
Melting point/range (°C):	No data available
Vapor density:	Non-volatile
Evaporation Rate (Water = 1)	Non-volatile
VOC content (%)	0

Physical state: Molecular weight: pH: Specific gravity (Water =1): Vapor pressure : Water solubility: Powder No data available No data available No data available No data available Insoluble

10. STABILITY AND REACTIVITY		
tability: Stable at normal conditions.		
Polymerization	Will not occur.	
Hazardous decomposition products: No decomposition if stored normally. Thermal decomposition can lead to release gases and vapors.		
Materials to avoid:	None known.	
Conditions to avoid	None known.	
	H. TOXICOLOGICAL INFORMATION	
Acute toxicity:	Information given is based on data on the components and the toxicology of similar products	
Target Organ Effects:	Vanadium: Eyes, respiratory system.	
Component information, if any, is list	ed below	
Silica, fumed LD50s and LC50s:	Oral LD50 (Rat) = 3160 mg/kg	
	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.		
Persistence and degradability:	No information available.	
13. DISPOSAL CONSIDERATIONS		
Waste from residues / unused products: Waste must be disposed of in accordance with federal, state and local environmental control regulations. Where possible recycling is preferred to disposal or incineration. This product contains Naturally Occuring Radioactive Materials (NORM). Consult and comply with curren regulations.		
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DOT (U.S.)

14. TRANSPORT INFORMATION

Proper shipping name: Not regulated.

#### TDG (Canada)

Proper shipping name:

Not regulated.

#### 15. REGULATORY INFORMATION

#### **U.S. Regulations:**

Not subject to TSCA 12(b) Export Notification

#### SARA 313:

TSCA:

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

Components	PARTK:
Vanadium compounds	Listed (PARTK)

Components	NJRTK:
Vanadium compounds	Listed (NJRTK)

#### **Canadian WHMIS**

WHMIS hazard class:

Non-controlled

# Canadian Ingredient Disclosure List (IDL):

Components	Canada - WHMIS Ingredient Disclosure:
Vanadium compounds	4

#### International Inventories

TSCA 8(b):	Listed or exempt.
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):	One or more ingredient(s) are not on the KECL list.
China (IECS):	Listed.
Australia (AICS):	Listed.
New Zealand (NZloC):	Listed.

16. OTHER INFORMATION

For Industrial Use Only.

Prepared by: Ferro Technical Center

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Disclaimer: 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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