

239416

# SAFETY DATA SHEET



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

PS 239 416 SanitlP yellow PP25KG

 Product specification
 RS\_FP\_300070
 Revision Date
 05/30/2015

 Version
 1
 Print Date
 06/24/2015

 Material number
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#### **SECTION 1. IDENTIFICATION**

Product name : MTO MATERIAL

00000000001134422

Product code : RS FP 300070

Manufacturer or supplier's details

Company name of supplier : Ferro Corporation

Address : 6060 Parkland Blvd. Suite 250

Mayfield Heights OH 44124-4185

Telephone : (216) 875-5600

Disposal considerations : Dispose of wastes in an approved waste disposal facility.

**Emergency telephone number** 

CHEMTREC In-Country : (800)424-9300

Number

CHEMTREC Global Number : +(1)-703-527-3887(Call Collect)

Recommended use of the chemical and restrictions on use

Recommended use : Manufacture of ceramic coatings and decorating preparations

suited for firing, for glass and ceramics.

#### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Carcinogenicity : Category 1A

**GHS Label element** 

Hazard pictograms



Signal word : Danger

Hazard statements : H350 May cause cancer.

Precautionary statements : **Prevention**:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P281 Use personal protective equipment as required.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/

attention. **Disposal:** 

P501 Dispose of contents/ container to an approved waste



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disposal plant.

Other hazards

None known.

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : inorganic salt

#### **Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
zircon, cadmium yellow	72968-34-4	>= 50 - < 70
zirconium silicate	14940-68-2	>= 30 - < 50

# **SECTION 4. FIRST AID MEASURES**

General advice : Consult a physician.

Most important symptoms and effects, both acute and

delayed

May cause cancer.

#### **SECTION 5. FIREFIGHTING MEASURES**

Specific hazards during

firefighting

: Do not use a solid water stream as it may scatter and spread

fire.

Cool closed containers exposed to fire with water spray.

Hazardous combustion

products

: No hazardous combustion products are known

Special protective equipment

for firefighters

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

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions : Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Keep in suitable, closed containers for disposal.

Clean contaminated floors and objects thoroughly while

observing environmental regulations.



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# **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

# **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

# Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
zircon, cadmium yellow	72968-34-4	TWA	5 mg/m3 (Zirconium)	OSHA Z-1
		TWA	0.01 mg/m3 (cadmium)	ACGIH
		TWA (Respirable fraction)	0.002 mg/m3 (cadmium)	ACGIH
		TWA	5 mg/m3 (Zirconium)	ACGIH
		STEL	10 mg/m3 (Zirconium)	ACGIH
		TWA	5 mg/m3 (Zirconium)	OSHA P0
		STEL	10 mg/m3 (Zirconium)	OSHA P0
		TWA	5 mg/m3 (Zirconium)	NIOSH REL
		ST	10 mg/m3 (Zirconium)	NIOSH REL
		PEL	0.005 mg/m3 (cadmium)	OSHA CARC
zirconium silicate	14940-68-2	TWA	5 mg/m3 (Zirconium)	OSHA Z-1
		TWA	5 mg/m3 (Zirconium)	ACGIH
		STEL	10 mg/m3 (Zirconium)	ACGIH
		TWA	5 mg/m3 (Zirconium)	OSHA P0
		STEL	10 mg/m3 (Zirconium)	OSHA P0
		TWA	5 mg/m3 (Zirconium)	NIOSH REL
		ST	10 mg/m3 (Zirconium)	NIOSH REL



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### **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Samplin g time	Permissible concentratio	Basis
					n	
zircon, cadmium yellow	72968-34-	cadmium	In blood	Not	5 μg/l	ACGIH
	4			critical		BEI
		cadmium	Urine	Not	5 μg/g	ACGIH
				critical	creatinine	BEI

# Personal protective equipment

Eye protection : Safety glasses

Ensure that eyewash stations and safety showers are close

to the workstation location.

Protective measures : Wear suitable protective equipment.

When using do not eat, drink or smoke. Wear suitable protective equipment.

Avoid contact with skin.

When using do not eat, drink or smoke.

Hygiene measures : Wash hands before breaks and immediately after handling

the product.

Remove contaminated clothing and protective equipment

before entering eating areas.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : powder

Colour : yellow

Odour : odourless

Odour Threshold : Not applicable

pH : No data available

Melting point/range : No data available

Boiling point/boiling range : Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : No data available

Burning rate : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available



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Vapour pressure : No data available

Relative density : No data available

Bulk density : No data available

Solubility(ies)

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: Not applicable

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : Not applicable

Explosive properties : No data available

Refractive index : Not applicable

#### **SECTION 10. STABILITY AND REACTIVITY**

Incompatible materials : No data available

Hazardous decomposition

products

: Stable under normal conditions.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

### **Acute toxicity**

Not classified based on available information.

**Product:** 

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

### Skin corrosion/irritation

Not classified based on available information.

# Serious eye damage/eye irritation

Not classified based on available information.

# Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.



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### Germ cell mutagenicity

Not classified based on available information.

# Carcinogenicity

May cause cancer.

IARC Group 1: Carcinogenic to humans

zircon, cadmium yellow 72968-34-4

ACGIH Suspected human carcinogen

zircon, cadmium yellow 72968-34-4

OSHA specifically regulated carcinogen

zircon, cadmium yellow 72968-34-4

NTP Known to be human carcinogen

zircon, cadmium yellow 72968-34-4

# Reproductive toxicity

Not classified based on available information.

### STOT - single exposure

Not classified based on available information.

# STOT - repeated exposure

Not classified based on available information.

# **Aspiration toxicity**

Not classified based on available information.

# **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

#### **Product:**

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

# Persistence and degradability

**Product:** 

Biodegradability : Remarks: No data available

**Components:** 

zircon, cadmium yellow:

Biodegradability : Remarks: No data available



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zirconium silicate:

Biodegradability : Remarks: No data available

Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: No data available

**Components:** 

zircon, cadmium yellow:

Bioaccumulation : Remarks: No data available

zirconium silicate:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-

octanol/water

: Remarks: Not applicable

Mobility in soil

Product:

Distribution among : Remarks: No data available

environmental compartments

**Components:** 

zircon, cadmium yellow:

Distribution among

environmental compartments

: Remarks: No data available

zirconium silicate:

Distribution among

environmental compartments

onto

: Remarks: No data available

Other adverse effects

**Product:** 

Results of PBT and vPvB

assessment

: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and

very bioaccumulating (vPvB).

**SECTION 13. DISPOSAL CONSIDERATIONS** 

**Disposal methods** 

Waste from residues : Dispose of wastes in an approved waste disposal facility.



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#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulation

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category : N/A Ship type : N/A

**National Regulations** 

49 CFR DOT

UN/ID/NA number : NA 3077

Proper shipping name : Other regulated substances, solid, n.o.s.

(zircon, cadmium yellow)

Class : 9
Packing group : III
Labels : 9
ERG Code : 171

Marine pollutant : yes(zircon, cadmium yellow)

#### **SECTION 15. REGULATORY INFORMATION**

TSCA list : TSCA 5a - Not relevant

TSCA\_12b - Not relevant

SARA 311/312 Hazards : Chronic Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

zircon, cadmium yellow 72968-34-4

Massachusetts Right To Know

No components are subject to the Massachusetts Right to

Know Act.

Pennsylvania Right To Know

zircon, cadmium yellow 72968-34-4 zirconium silicate 14940-68-2



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**New Jersey Right To Know** 

zircon, cadmium yellow 72968-34-4 zirconium silicate 14940-68-2

California Prop 65 WARNING! This product contains a chemical known to the

State of California to cause cancer.

zircon, cadmium yellow 72968-34-4

The components of this product are reported in the following inventories:

REACH : This mixture contains only ingredients which have been

subject to a pre-registration according to Regulation (EC) No.

1907/2006 (REACH).

CH INV : On the inventory, or in compliance with the inventory

TSCA : On TSCA Inventory

DSL : This product contains the following components listed on the

Canadian NDSL. All other components are on the Canadian

DSL.

: zircon, cadmium yellow

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

: zircon, cadmium yellow

: zirconium silicate

ISHL : Not in compliance with the inventory

: zircon, cadmium yellow

: zirconium silicate

KECI : Not in compliance with the inventory

zircon, cadmium yellow

PICCS : On the inventory, or in compliance with the inventory

IECSC : Not in compliance with the inventory

: zircon, cadmium yellow

TW INV : Not in compliance with the inventory

: zircon, cadmium yellow



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: zirconium silicate

MY INV : Not in compliance with the inventory

: zircon, cadmium yellow

: zirconium silicate

TR INV : Not in compliance with the inventory

: zircon, cadmium yellow

: zirconium silicate

#### **Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA), CH INV (Switzerland), MY INV (Malaysia), TR INV (Turkey), TW INV (Taiwan)

#### **SECTION 16. OTHER INFORMATION**

Revision Date : 05/30/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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