

SAFETY DATA SHEET



According to OSHA Hazard Communication Standard 29CFR 1910.1200 (HCS 2012)

239416		PS 239 416 SanitIP yellow PP25KG	
Product specification	RS_FP_300070	Revision Date	04/04/2017
Version	2.0	Print Date	11/21/2019
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SECTION 1. IDENTIFICATION

Product name : **239416**
PS 239 416 SanitIP yellow PP25KG

Material number : **1134422**

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

Emergency telephone number

In-Country Number : (800)424-9300
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

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : inorganic pigment, 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

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- 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.

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/m ³ (Zirconium)	OSHA Z-1
		TWA	0.01 mg/m ³ (cadmium)	ACGIH
		TWA (Respirable fraction)	0.002 mg/m ³ (cadmium)	ACGIH
		TWA	5 mg/m ³ (Zirconium)	ACGIH
		STEL	10 mg/m ³ (Zirconium)	ACGIH
		TWA	5 mg/m ³ (Zirconium)	OSHA P0

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		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

Biological occupational exposure limits

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

Engineering measures : No data available

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

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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
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Bulk density	:	No data available
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	Not determined
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Refractive index	:	Not applicable
Volatile organic compounds (VOC) content	:	This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCOMI Intermediate or Final VOC's (40 CFR 60.489). This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	No decomposition if stored and applied as directed.
Incompatible materials	:	No data available
Hazardous decomposition products	:	Stable under normal conditions.

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SECTION 11. TOXICOLOGICAL INFORMATION

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.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

May cause cancer.

IARC

No component 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 component 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 component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT Specific Target Organ Toxicity - single exposure

Not classified based on available information.

STOT Specific Target Organ Toxicity - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

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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

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 environmental compartments : Remarks: No data available

Components:

zircon, cadmium yellow:

Distribution among environmental compartments : Remarks: No data available

zirconium silicate:

Distribution among : Remarks: No data available

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environmental compartments

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82
Protection of Stratospheric Ozone - CAA Section 602 Class I
Substances
Remarks: This product neither contains, nor was
manufactured with a Class I or Class II ODS as defined by the
U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +
B).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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

SECTION 14. TRANSPORT INFORMATION

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

Not applicable for product as supplied.

National Regulations

49 CFR

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)
Remarks : Above applies only to containers over 119 gallons or 450
liters. Not regulated if shipped in packages less than or equal
to 119 gallons (450 liters).

SECTION 15. REGULATORY INFORMATION

TSCA list : TSCA 5a - Not relevant

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TSCA list : TSCA_12b - Not relevant

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

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 : This product contains components that are reportable under the regulation.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product contains components that are reportable under the regulation.

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCOMI Intermediate or Final VOC's (40 CFR 60.489).

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.

This product contains components that are reportable under the regulation.

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

This product contains components that are reportable under the regulation.

New Jersey Right To Know

This product contains components that are reportable under the regulation.

California Prop 65

WARNING! This product contains a chemical known to the State of California to cause cancer.

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

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EINECS (European Union)	: On the inventory, or in compliance with the inventory
SWISS (Switzerland)	: On the inventory, or in compliance with the inventory
TSCA (United States)	: On TSCA Inventory
DSL/NDSL (Canada)	: This product contains one or several components listed in the Canadian NDSL.
AICS (Australia)	: On the inventory, or in compliance with the inventory
NZioC (New Zealand)	: On the inventory, or in compliance with the inventory
ENCS (Japan)	: Not in compliance with the inventory
ISHL (Japan)	: Not in compliance with the inventory
KECI (Korea)	: Not in compliance with the inventory
PICCS (Philippines)	: On the inventory, or in compliance with the inventory
IECSC (China)	: Not in compliance with the inventory
TCSI (Taiwan)	: On the inventory, or in compliance with the inventory
CICR (Turkey)	: Not in compliance with the inventory
INSQ (Mexico)	: Not in compliance with the inventory

SECTION 16. OTHER INFORMATION

Revision Date : 04/04/2017

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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