

Material Safety Data Sheet

239616 **IS 239 616 US SanitIP orange PP25KG**

Product specification	RS_FP_300071	Revision Date	08/14/2014
Version	1	Print Date	07/13/2015
Material number	1338301	Page	Page 1 of 9

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : MTO MATERIAL

Product code : RS_FP_300071

Chemical nature : inorganic pigment

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

CHEMTREC 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

Emergency Overview

Form	powder
Colour	yellow
Odour	odourless
Hazard Summary	May cause cancer.

Self-Ignitable : no data available

Flammability (solid, gas) : no data available

Potential Health Effects

Aggravated Medical Condition : None known.

Symptoms of Overexposure : No information available.

Carcinogenicity:

IARC

Group 1: Carcinogenic to humans

inclusion pigment

102184-95-2

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OSHA

NTP

inclusion pigment 102184-95-2
 Known to be human carcinogen
 inclusion pigment 102184-95-2

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Substance

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
inclusion pigment	102184-95-2	>= 90 - <= 100 %

SECTION 4. FIRST AID MEASURES

Most important symptoms and effects, both acute and delayed : No information available.
 No information available.
 Protection of first-aiders : Consult a physician.
 Notes to physician : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5. FIREFIGHTING MEASURES

Unsuitable extinguishing media : High volume water jet
 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.
 : Use personal protective equipment.
 Ensure adequate ventilation.

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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.

Materials to avoid : no data available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
inclusion pigment	102184-95-2	TWA	5 mg/m3	OSHA P1
			0.01 mg/m3	ACGIH
		TWA (Respirable fraction)	0.002 mg/m3	ACGIH
		TWA	5 mg/m3	ACGIH
		STEL	10 mg/m3	ACGIH
		TWA	5 mg/m3	OSHA P0
		STEL	10 mg/m3	OSHA P0
		TWA	5 mg/m3	NIOSH REL
		ST	10 mg/m3	NIOSH REL
		PEL	0.005 mg/m3	OSHA CARC

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.

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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

Auto-flammability : no data available

Upper explosion limit : no data available

Lower explosion limit : no data available

Vapour pressure : no data available

Relative 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

Thermal decomposition : no data available

Viscosity

Viscosity, dynamic : not applicable

Explosive properties : no data available

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SECTION 10. STABILITY AND REACTIVITY

Incompatible materials : no data available

Hazardous decomposition products : Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Product**

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT - single exposure

no data available

STOT - repeated exposure

no data available

Aspiration toxicity

no data available

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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 : no data available

Components:

inclusion pigment :

Biodegradability : no data available

Bioaccumulative potential

Product:

Bioaccumulation : no data available

Partition coefficient: n-octanol/water : not applicable

Components:

inclusion pigment :

Bioaccumulation : no data available

Mobility in soil

Product:

Distribution among environmental compartments : no data available

Components:

inclusion pigment :

Distribution among environmental compartments : no data available

Results of PBT and vPvB assessment

Product:

Assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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

SECTION 14. TRANSPORT INFORMATION

International transport regulations

ADR

Not dangerous goods

MERCOSUR

Not dangerous goods

DOT

UN number : 3077
Description of the goods : Other regulated substances, solid, n.o.s.
(inclusion pigment)
Class : 9
Packing group : III
Labels : 9
Emergency Response : 171
Guidebook Number :
Environmentally hazardous : yes
inclusion pigment

IATA

Not dangerous goods

IMDG

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Combustible dust, Carcinogen

SARA 311/312 Hazards : Chronic Health Hazard

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

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SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:
inclusion pigment 102184-95-2 0

US State Regulations

Massachusetts Right To Know

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

Pennsylvania Right To Know

inclusion pigment 102184-95-2 0 - 0

New Jersey Right To Know

inclusion pigment 102184-95-2 0 - 0

California Prop 65

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

inclusion pigment 102184-95-2

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

All components of this product are on the Canadian DSL.

AICS

On the inventory, or in compliance with the inventory

NZIoC

Not in compliance with the inventory

inclusion pigment

ENCS

Not in compliance with the inventory

inclusion pigment

ISHL

Not in compliance with the inventory

inclusion pigment

KECI

On the inventory, or in compliance with the inventory

PICCS

Not in compliance with the inventory

inclusion pigment

IECSC

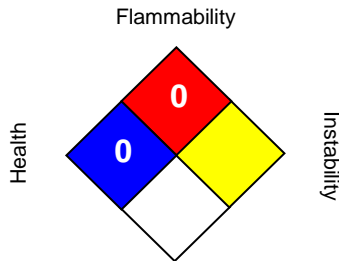
On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

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Further information

NFPA:



HMIS III:

HEALTH	
FLAMMABILITY	0
PHYSICAL HAZARD	

0 = not significant, 1 =Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic



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