

SAFETY DATA SHEET



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

1429291		PS Sea Foam Green DRY 0.4LB Pak
Product specification	RS_FP_606533	Revision Date 07/31/2020
Version	1.0	Print Date 08/04/2020
Material number	1429291	Page Page 1 of 10

SECTION 1. IDENTIFICATION

Product name : **1429291**
PS Sea Foam Green DRY 0.4LB Pak

Material number : **1429291**

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 : Industrial use
Restrictions on use : Reserved for industrial and professional use.

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

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Co-Cr-Al spinel blue green	68187-11-1	>= 30 - < 50
Co-Ti spinel green	68186-85-6	>= 30 - < 50
aluminium silicate	12141-46-7	>= 5 - < 10

SECTION 4. FIRST AID MEASURES

General advice : Consult a physician.
If inhaled : If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.

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|---|---|
| In case of skin contact | : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. |
| In case of eye contact | : Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| If swallowed | : Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. |
| Most important symptoms and effects, both acute and delayed | : None known. |
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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. |
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SECTION 6. ACCIDENTAL RELEASE MEASURES

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|---|---|
| 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

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|-------------------------|---|
| Advice on safe handling | : For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. |
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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Co-Cr-Al spinel blue green	68187-11-1	TWA	0.5 mg/m3 (chromium)	OSHA Z-1
		TWA	0.02 mg/m3 (Cobalt)	ACGIH
		TWA	0.5 mg/m3 (chromium)	NIOSH REL
		TWA	0.5 mg/m3 (chromium)	ACGIH
Co-Ti spinel green	68186-85-6	TWA	0.02 mg/m3 (Cobalt)	ACGIH
aluminium silicate	12141-46-7	TWA (Respirable fraction)	1 mg/m3 (Aluminium)	ACGIH
titanium dioxide	13463-67-7	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH

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.

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 : green
Odour : odourless
Odour Threshold : No data available

pH : Not applicable

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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	:	Not applicable
Lower explosion limit	:	Not applicable
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	No data available
Bulk density	:	No data available
Solubility(ies)	:	
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	Not determined
Decomposition temperature	:	No data available
Viscosity	:	
Viscosity, kinematic	:	Not applicable
Explosive properties	:	No data available
Oxidizing properties	:	Not applicable
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 SOCM I 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.
Possibility of hazardous reactions	:	No hazards to be specially mentioned.
Conditions to avoid	:	No data available
Incompatible materials	:	No data available
Hazardous decomposition products	:	No data available

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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

inhalation (dust/mist/fume)

Skin

Ingestion

Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:

Co-Cr-Al spinel blue green:

Acute oral toxicity : LD50 (Rat): > 10,000 mg/kg

Co-Ti spinel green:

Acute oral toxicity : LD50 (Rat, male and female): > 10,000 mg/kg
GLP: yes

Skin corrosion/irritation

Not classified based on available information.

Components:

Co-Cr-Al spinel blue green:

Species: human keratinocytes

Method: OECD Test Guideline 439

Result: No skin irritation

Co-Ti spinel green:

Species: Rabbit

Exposure time: 24 h

Assessment: No skin irritation

Result: No skin irritation

GLP: no

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Co-Cr-Al spinel blue green:

Species: Rabbit

Result: No eye irritation

Exposure time: 72 h

Method: OECD Test Guideline 405

GLP: yes

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Co-Ti spinel green:

Species: Rabbit

Result: No eye irritation

Assessment: No eye irritation

GLP: no

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

Not classified based on available information.

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.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Co-Cr-Al spinel blue green:

Toxicity to fish : LC50 (Fish): 1,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 10,000 mg/l
Exposure time: 48 h

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Co-Ti spinel green:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 10,000 mg/l
Exposure time: 96 h
Test Type: static test
Method: DIN 38412
GLP: no

Persistence and degradability

Components:

Co-Cr-Al spinel blue green:

Biodegradability : Remarks: No data available

Co-Ti spinel green:

Biodegradability : Remarks: No data available

aluminium silicate:

Biodegradability : Remarks: No data available

Bioaccumulative potential

Components:

Co-Cr-Al spinel blue green:

Bioaccumulation : Remarks: No data available

Co-Ti spinel green:

Bioaccumulation : Remarks: No data available

aluminium silicate:

Bioaccumulation : Remarks: No data available

Mobility in soil

Components:

Co-Cr-Al spinel blue green:

Distribution among environmental compartments : Remarks: No data available

Co-Ti spinel green:

Distribution among environmental compartments : Remarks: No data available

aluminium silicate:

Distribution among environmental compartments : Remarks: No data available

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

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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

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

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

TSCA list : TSCA_12b - Not relevant

TSCA list : TSCA 5a - 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 : No SARA Hazards

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.

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Chromium III CompoundsCobalt,
inorganic compounds

Cobalt, inorganic compounds

Cobalt, inorganic compounds

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 SOCM 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

This product contains components that are reportable under the regulation.

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:

EINECS (European Union) : Not in compliance with the inventory

SWISS (Switzerland) : Not in compliance with the inventory

TSCA (United States) : On TSCA Inventory

DSL/NDSL (Canada) : All components of this product are on the Canadian DSL.

AICS (Australia) : On the inventory, or in compliance with the inventory

NZioC (New Zealand) : On the inventory, or in compliance with the inventory

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ENCS (Japan)	: On the inventory, or in compliance with the inventory
ISHL (Japan)	: On the inventory, or in compliance with the inventory
KECI (Korea)	: On the inventory, or in compliance with the inventory
PICCS (Philippines)	: On the inventory, or in compliance with the inventory
IECSC (China)	: On the inventory, or 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 : 07/31/2020

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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