

## Safety Data Sheet

acc. to OSHA HCS

Printing date 06/24/2015

Reviewed on 06/24/2015

### 1 Identification

- **Product identifier**
- **Trade name:** FERROTINT BLUE F28R
- **Article number:** F-28R
- **Application of the substance / the preparation** Pigment
- **Uses advised against :**  
*Food additive*  
*Additive for cosmetic or pharmaceutic preparations*  
*Applications where there is a direct or indirect contact with foodstuffs*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 CATHAY Industries USA Inc.  
 4901 Evans Ave  
 Valparaiso, IN 46383  
 (U.S.A.)
- **Information department:**  
 Product safety department  
 rtrapp@cathayIndUSA.com
- **Emergency telephone number:**  
 Emergency Telephone of CATHAY Industries USA Inc. : Toll Free 855-4 CATHAY or 219-464-7395  
 Emergency Number - INFOTRAC EMERGENCY PHONE (24 HOURS): 1-800-535-5053

### 2 Hazard(s) identification

- **Classification of the substance or mixture**  
*Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.*  
*Combustible Dust May form combustible dust concentrations in air.*
- **Label elements**
- **GHS label elements**  
*The product is classified and labeled according to the Globally Harmonized System (GHS).*
- **Hazard pictograms** Void
- **Signal word** Warning
- **Hazard statements**  
*H412 Harmful to aquatic life with long lasting effects.*  
*May form combustible dust concentrations in air.*
- **Precautionary statements**  
*P273 Avoid release to the environment.*  
*P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



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- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Substances**

· **CAS No. Description**

CAS: 147-14-8 RTECS: GL 8510000	[29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32] copper (CI 74160).	25-50%
CAS: 26545-58-4	Anionic dispersing agent	25-50%
CAS: 7757-82-6	sodium sulphate	2.5-10%
CAS: 7732-18-5 RTECS: ZC 0110000	water	2.5-10%

· **Chemical characterization: Mixtures**

· **Dangerous components:**

CAS: 9016-45-9 RTECS: WZ4750000	Non-ionic dispersing agent ⚠ Aquatic Chronic 2, H411 ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319 Aquatic Acute 2, H401	2.5-10%
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· **Additional information:**

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### 4 First-aid measures

· **Description of first aid measures**

· **General information:** Remove severely contaminated clothing and clean before reuse.

· **After inhalation:**

Loosen tight clothing such as a collar, tie, belt or waistband.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

If necessary, restore normal breathing through standard first aid measures.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Continue to rinse for at least 10 minutes.

In the event of any complaints or symptoms, avoid further exposure.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Check for and remove any contact lenses.

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Continue to rinse for at least 10 minutes.

Get medical attention if irritation occurs.

Do not use an eye ointment.

· **After swallowing:**

Rinse mouth.

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*Never give anything by mouth to an unconscious person.*

*If swallowed do not induce vomiting, seek medical advice and show safety data sheet or label*

· **Information for doctor:**

*Treat according to symptoms (decontamination, vital functions), no known specific antidote.*

*See Section 11 for more detailed information on health effects and symptoms.*

· **Most important symptoms and effects, both acute and delayed** *No further relevant information available.*

· **In case of inhalation:**

*Coughing*

*Breathing difficulty*

*May cause irritation to the respiratory tract.*

· **In case of skin contact:** *May cause mild skin irritation.*

· **In case of eye contact:** *Redness.*

· **In case of ingestion:** *Vomiting.*

· **Indication of any immediate medical attention and special treatment needed**

*Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.*

## 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

*Water spray*

*Fire-extinguishing powder*

*Foam*

· **For safety reasons unsuitable extinguishing agents:**

*Water with full jet*

*Carbon dioxide*

· **Special hazards arising from the substance or mixture**

*In case of fire, the following can be released:*

*Carbon dioxide (CO<sub>2</sub>).*

*Carbon monoxide (CO)*

*Nitrogen oxides (NO<sub>x</sub>)*

*Sulphur dioxide (SO<sub>2</sub>)*

*Some metallic oxides.*

· **Advice for firefighters**

*Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.*

*No action shall be taken involving any personal risk or without suitable training.*

*Move containers from fire area if this can be done without risk.*

*Do not create a dust cloud by using a brush or compressed air.*

*Avoid whirling up the material/product because of the danger of dust explosion.*

· **Protective equipment:**

*Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.*

*Clothing for fire-fighters (including helmets, protective boots and gloves) certified to provide a basic level of protection for chemical incidents.*

· **Additional information**

*Cool endangered receptacles with water spray.*

*Collect contaminated fire fighting water separately. It must not enter the sewage system.*

*Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.*

*Risk of dust explosion.*

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### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

No action shall be taken involving any personal risk or without suitable training.

Keep away unnecessary and unprotected personnel.

Put on appropriate personal protective equipment (see Section 8).

Avoid formation of dust.

Ensure adequate ventilation

Hazard of slipping on spilt product.

Product forms slippery surface when combined with water.

· **Environmental precautions:**

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

Keep contaminated washing water and dispose of appropriately.

Even at low concentration, the product renders the discharge in liquid effluent highly visible.

Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

· **Small spill**

Ensure adequate ventilation.

Stop leak if without risk.

Move containers from spill area.

Pick up and arrange disposal without creating dust.

Sweep up and shovel.

Keep in suitable, closed containers for disposal.

Dispose of via a licensed waste disposal contractor.

Clean the affected area carefully; suitable cleaners are:

Warm water and cleansing agent

· **Large spill**

Ensure adequate ventilation.

Stop leak if without risk.

Move containers from spill area.

Pick up and arrange disposal without creating dust.

Sweep up and shovel.

Keep in suitable, closed containers for disposal according to local regulations (see section 13).

Dispose of via a licensed waste disposal contractor.

Clean the affected area carefully; suitable cleaners are:

Warm water and cleansing agent

See section 1 for emergency contact information and section 13 for waste disposal.

· **Reference to other sections**

See Section 1 for emergency contact information.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Open and handle receptacle with care.

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

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- Prevent formation of dust.
- Provide suction extractors if dust is formed.
- Any deposit of dust which cannot be avoided must be regularly removed.
- **Information about protection against explosions and fires:**  
Airborne organic pigment dust may be an explosion hazard. Secure possible sources of ignition and avoid dusting.
- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- Dust deposits must be avoided.
- Plastic wrap from palletized packages may bear significant static charge which can cause flash fire if near combustibles.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**  
Store in accordance with local regulations.
- Use appropriate containment to avoid environmental contamination.
- **Requirements to be met by storerooms and receptacles:**  
Pigments should not be stored in outside areas exposed to the weather.
- Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
- Do not store in unlabelled containers.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.
- Store in a dry place away from ignition sources and strong oxidizers.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.
- Protect from humidity and water.
- **Storage duration (months) : 60**
- **Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

- **Recommended monitoring procedures :**  
If this product contains ingredients with exposure limits, personal, workplace procedures atmosphere monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- **Additional information about design of technical systems:**  
Mechanical ventilation may be required to maintain exposure levels below limits.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

**9016-45-9 Non-ionic dispersing agent**

ACGIH TLV	Short-term value: 10 mg/m <sup>3</sup> recommended (WEEL)
OSHA PEL	Short-term value: 10 mg/m <sup>3</sup> recommended (WEEL)

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Handle in accordance with good industrial hygiene and safety practice.  
Do not eat, drink, smoke or sniff while working.

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- Keep away from foodstuffs, beverages and feed.*
- Wash hands before breaks and at the end of work.*
- Do not inhale dust / smoke / mist.*
- Avoid contact with the eyes and skin.*
- Ensure that washing facilities are available at the work place.*
- Do not carry product impregnated cleaning cloths in trouser pockets.*
- Wash contaminated clothing before reusing.*

· **Breathing equipment:**

- For nuisance exposures use type P95 (US) particle respirator.*
- For higher level protection use type OV/AG/P99 (US) respirator cartridges.*
- Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).*

· **Protection of hands:**



Protective gloves

- Wash and dry hands.*
- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

· **Material of gloves**

- Butyl rubber, BR*
- Nitrile rubber, NBR*
- Chloroprene rubber, CR*
- PVC or PE gloves*

· **Penetration time of glove material**

- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

· **Eye protection:**

- Safety glasses with side-shields.*
- Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US).*

· **Body protection:** *Protective work clothing*

· **Limitation and supervision of exposure into the environment**

- Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.*

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

- |               |                 |
|---------------|-----------------|
| <b>Form:</b>  | <i>Powder</i>   |
| <b>Color:</b> | <i>Blue</i>     |
| <b>Odor:</b>  | <i>Odorless</i> |

· **pH-value (100 g/l) at 25 °C (77 °F):** *6.0 - 8.0 (ISO 787-9)*

· **Change in condition**

**Melting point/Melting range:** *Undetermined.*

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· <b>Flash point:</b>	Not applicable.
· <b>Flammability (solid, gaseous):</b>	Not highly flammable.
· <b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Dust Explosion Hazard.
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Oxidizing properties</b>	No oxidising properties
· <b>Vapor pressure:</b>	Not applicable.
· <b>Specific gravity at 25 °C (77 °F):</b>	1.27 g/cm <sup>3</sup> (10.598 lbs/gal) (ISO 787-10)
· <b>Bulk density at 25 °C (77 °F):</b>	900 kg/m <sup>3</sup> (ISO 787-11)
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	The product is a non-volatile solid.
· <b>Evaporation rate</b>	The product is a non-volatile solid.
· <b>Solubility in / Miscibility with Water:</b>	Partly soluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>Solvent content:</b>	
<b>Heating loss at 105°C :</b>	< 5.0 % (ISO 787-2)
· <b>Other information</b>	No further relevant information available.

**10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal ambient conditions.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** Risk of dust explosion.
- **Conditions to avoid**  
Excess heat.  
Situations which cause dusting.  
Incompatible materials
- **Incompatible materials:**  
Material is incompatible with strong oxidizing agents and peroxides.  
Avoid contact with strong acids or bases.
- **Hazardous decomposition products:**  
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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**11 Toxicological information**

- Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:

**147-14-8 [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32] copper (CI 74160).**

Oral	LD50	> 2000 mg/kg (rat) (OECD 401)
Dermal	LD50	> 2000 mg/kg (Rat (male)) (OECD 402)
	LD 50 intraperitoneal	> 2000 mg/kg (rat)

**26545-58-4 Anionic dispersing agent**

Oral	LD50	> 2000 mg/kg (rat)
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**9016-45-9 Non-ionic dispersing agent**

Oral	LD50	4290 mg/kg (rat) (EU B.1.)
Dermal	LD50	> 2000 mg/kg (rabbit)

**7757-82-6 sodium sulphate**

Oral	LD50	5989 mg/kg (mouse) > 10000 mg/kg (rat)
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· Repeated dose toxicity :

**147-14-8 [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32] copper (CI 74160).**

Oral	NOAEL	c.a. 4500 mg/kg bw/day (rat) (OECD 408) 90 days test
Inhalative	NOAEL	9.7 mg/m <sup>3</sup> (Rat (male)) (OECD 412)

· Irritation / Corrosion :

**147-14-8 [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32] copper (CI 74160).**

Irritation of skin	In vivo	- (rabbit) (OECD 404)
Irritation of eyes	In vivo	- (rabbit) (OECD 405)

**26545-58-4 Anionic dispersing agent**

Irritation of skin	In vivo	- (rabbit) (OECD 404) Not irritating
Irritation of eyes	In vivo	- (rabbit) (OECD 405) Not irritating

**9016-45-9 Non-ionic dispersing agent**

Irritation of skin	In vivo	+ (rabbit) (EU B.40) Irritating
Irritation of eyes	In vivo	+ (rabbit) (EU B.5) Irritating

**7757-82-6 sodium sulphate**

Irritation of skin	In vivo	- (rabbit) Not irritating
Irritation of eyes	In vivo	+/- (rabbit) Slightly irritating

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**· Sensitisation :**

**147-14-8 [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32] copper (CI 74160).**

Sensitization	In vivo	- (Mouse (female)) (OECD 429) Not sensitizing - (Guinea pig) (OECD 406) Not sensitizing
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**26545-58-4 Anionic dispersing agent**

Sensitization	In vivo	- (Guinea pig) (OECD 406) Not sensitizing
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**9016-45-9 Non-ionic dispersing agent**

Sensitization	In vivo	- (Guinea pig) (EU B.6)
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**· Genetic toxicity :**

**147-14-8 [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32] copper (CI 74160).**

In vitro	- (Rat (male)) (OECD 482)
In vitro mammalian cell gene mutation assay	- (Hamster) (OECD 487)
In vitro mammalian chromosome aberration test	- (Hamster) (JAPAN: Guidelines for Screening Mutagenicity Test)
In vivo	- (Hamster) (Nucleus Anomaly Test)
	- (mouse) (OECD 484)
Reverse mutation assay (Ames test)	- (Salmonella typhimurium) (OECD 471)

**9016-45-9 Non-ionic dispersing agent**

Reverse mutation assay (Ames test)	- (Salmonella typhimurium) Negative
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**· Toxicity to reproduction :**

**· Toxicity to reproduction:**

**147-14-8 [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32] copper (CI 74160).**

Oral	NOAEL	1000 mg/kg bw/day (rat) (OECD 421) 90 days test
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**· Teratogenicity :**

**147-14-8 [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32] copper (CI 74160).**

Oral	NOAEL	1000 mg/kg bw/day (rat) (OECD 421) 90 days test
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- **Potential health effects :** Health injuries are not known or expected under normal use.
- **Health conditions aggravated by exposure :** Pre-existing skin, eye or respiratory disorders.
- **Primary irritant effect:**
- **on the skin:** May irritate the skin and mucous membranes
- **on the eye:** May irritate the eyes.
- **by inhalation:** May cause irritation of the nose, throat and respiratory tract.
- **by ingestion:**  
May cause irritation of the digestive tract and may cause purging.  
Symptoms may include stomach cramps, stricture of the esophagus, nausea, vomiting.
- **Sensitization:** No sensitizing effects known.

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· **Subacute to chronic toxicity:**  
Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**  
(Group 3: Not classifiable as to its carcinogenicity to humans)

· **NTP (National Toxicology Program)**  
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.

· **OSHA-Ca (Occupational Safety & Health Administration)**  
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.

· **ACGIH (American Conference of Governmental Industrial Hygienists) :**  
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

### 12 Ecological information

· **Aquatic toxicity:**

· **Short-term toxicity :**

**147-14-8 [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32] copper (CI 74160).**

EC50/48 hr. (static) > 500 mg/lit (Daphnia magna) (EU C.2)

EC50/72 h. (static) > 100 mg/lit (algae) (OECD 201)

LC50/96 h (static) > 100 mg/lit (fish) (OECD 203)

**26545-58-4 Anionic dispersing agent**

LC50/96 h > 100 mg/lit (fish)

**9016-45-9 Non-ionic dispersing agent**

EC50/48 hr. 15 mg/lit (Bacteria)

LC50/96 h 11.5 mg/lit (fish)

**7757-82-6 sodium sulphate**

EC50(30 mn.) (static) 4600 mg/lit (Bacteria)

LC50/96 h (static) > 100 mg/lit (fish)

· **Long-term toxicity :**

**147-14-8 [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32] copper (CI 74160).**

NOEC (static) ≥ 1 mg/lit (Daphnia magna) (OECD 211)

· **Sediment toxicity :**

**147-14-8 [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32] copper (CI 74160).**

NOEC 1000 mg/kg sediment d (Lumbriculus variegatus) (OECD 225)

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· **Terrestrial toxicity :**

· **Toxicity to soil microorganisms :**

**147-14-8 [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32] copper (CI 74160).**

NOEC  $\geq$  1000 mg/kg soil dw (*Eisenia fetida*) (OECD 207)

· **Persistence and degradability**

Well eliminable from water by adsorption on activated sludge.

The contained surfactants are not biodegradable.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:**

The product does not contain heavy metals in concentrations of concern for waste water.

Harmful for the aquatic organisms and it can promote long term negative effects on the aquatic environment.

· **Behavior in sewage processing plants:**

· **Remark:**

The colourant is insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plant.

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

· **Additional ecological information:**

· **General notes:**

Harmful to aquatic organisms

This statement was deduced from the properties of the single components.

The product contains materials that are harmful to the environment.

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

· **Hazardous waste :**

The classification of the product may meet the criteria for a hazardous waste.

Disposal should be made in accordance with federal, state and local regulations.

· **Waste disposal key:**

It is the responsibility of the user to determine RCRA classification of any product containing this material.

· **Uncleaned packagings:**

· **Recommendation:**

The generation of waste should be avoided or minimized wherever possible.

Disposal must be made according to official regulations.

Packaging can be reused or recycled after cleaning.

Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

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- **Recommended cleansing agent:** Water, if necessary with cleansing agents.
- **Special precautions :**  
Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**14 Transport information**

- **UN-Number**  
· DOT, ADR, ADN, IMDG, IATA                      Void
- **UN proper shipping name**  
· DOT, ADR, ADN, IMDG, IATA                      Void
- **Transport hazard class(es)**  
· DOT, ADR, ADN, IMDG, IATA  
· Class    Void
- **Packing group**  
· DOT, ADR, IMDG, IATA                              Void
- **Environmental hazards:**  
· **Marine pollutant:**                                      No
- **Special precautions for user**                      Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**                      Not applicable.
- **UN "Model Regulation":**                              -

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):**  
None of the ingredient is listed.
- **CERCLA Hazardous Substances**  
None of the ingredients is listed.
- **Hazard Communication Standard (HCS)**  
None of the ingredients is listed.
- **SARA 302 Components :**  
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- **Section 313 (Specific toxic chemical listings):**  
147-14-8 [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32] copper (CI 74160).
- **Sara (311, 312) hazard Class :** No SARA Hazards.
- **TSCA (Toxic Substances Control Act):**  
All ingredients are listed.
- **Volatile Organic Compounds (VOC) :** None.

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### Safety Data Sheet acc. to OSHA HCS

Printing date 06/24/2015

Reviewed on 06/24/2015

**Trade name: FERROTINT BLUE F28R**

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**· Ozone Depleting Substances (ODS) :**

*This product neither contains nor was manufactured with a Class I or Class II ozone depleting substance as defined by 40 CFR 82, Subpart A, Appendices A and B.*

**· Clean Air Act – Hazardous Air Pollutants (HAP)**

*None of the ingredients is listed.*

**· Clean Water Act – Priority Pollutants (PP)**

*This product does not contain any priority pollutants defined by 40 CFR 401.15.*

**· Proposition 65**

**· Chemicals known to cause cancer:**

*None of the ingredients is listed.*

**· Chemicals known to cause reproductive toxicity for females:**

*None of the ingredients is listed.*

**· Chemicals known to cause reproductive toxicity for males:**

*None of the ingredients is listed.*

**· Chemicals known to cause developmental toxicity:**

*None of the ingredients is listed.*

**· Massachusetts Right To Know :** *None of the ingredients is listed.*

**· Pennsylvania Right To Know :** *None of the ingredients is listed.*

**· Minnesota Right To Know :** *None of the ingredients is listed.*

**· New Jersey Right To Know :** *None of the ingredients is listed.*

**· Rhode Island Right to know :** *None of the ingredients is listed.*

**· Florida Right To Know :** *None of the ingredients is listed.*

**· Cancerogenity categories**

**· EPA (Environmental Protection Agency)**

9016-45-9 Non-ionic dispersing agent

Yes

**· TLV (Threshold Limit Value established by ACGIH)**

*None of the ingredients is listed.*

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

*None of the ingredients is listed.*

**· Hazard pictograms** Void

**· Signal word** Warning

**· Hazard statements**

*H412 Harmful to aquatic life with long lasting effects.*

*May form combustible dust concentrations in air.*

**· Precautionary statements**

*P273 Avoid release to the environment.*

*P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

**· National regulations:**

**· Other regulations, limitations and prohibitive regulations**

**· Chemical Weapons Convention List Schedule I :** *None of the ingredients is listed.*

**· Chemical Weapons Convention List Schedule II :** *None of the ingredients is listed.*

**· Chemical Weapons Convention List Schedule III :** *None of the ingredients is listed.*

**· Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

US

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## Safety Data Sheet acc. to OSHA HCS

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### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Relevant phrases**

*H302 Harmful if swallowed.*

*H315 Causes skin irritation.*

*H319 Causes serious eye irritation.*

*H401 Toxic to aquatic life.*

*H411 Toxic to aquatic life with long lasting effects.*

· **Department issuing SDS:** Product safety department.

· **Contact:** Mr. Trapp

· **Date of preparation / last revision** 06/24/2015 / 2

· **Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*ACGIH: American Conference of Governmental Industrial Hygienists*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*NOAEL : Non Observed Adverse Effects Level*

*LOAEC : Lowest Observable Adverse Effect Concentration*

*EC50 : Maximal effective concentration, 50 percent*

*Acute Tox. 4: Acute toxicity, Hazard Category 4*

*Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2*

*Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A*

*Aquatic Acute 2: Hazardous to the aquatic environment - AcuteHazard, Category 2*

*Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2*

*Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3*

· **\* Data compared to the previous version altered.**