



SAFETY DATA SHEET

Revision Date 28-Jul-2020

Revision Number 10

1. IDENTIFICATION

Product Identifier

Product Name RAL 5010 Gentian Blue

Other means of identification

Product Code(s) PLSF20027CN

Product Type Powder Coating.

Recommended use of the chemical and restrictions on use

Recommended Use Industrial Coating.

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address

IFS Coatings Inc. 3601 North I-35 Gainesville, TX 76240
940-668-1062

Emergency telephone number

Emergency Telephone Number CHEMTREC (800) 424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

WHMIS Statement

Classification complies with Canadian Hazardous Products Regulations (WHMIS 2015).

| | |
|--|-------------|
| Acute toxicity - Oral | Category 4 |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
| Serious eye damage/eye irritation | Category 1 |
| Skin sensitization | Category 1 |
| Germ cell mutagenicity | Category 1B |
| Carcinogenicity | Category 1A |
| Specific target organ toxicity (repeated exposure) | Category 2 |

Label elements

Emergency Overview

Signal Word Danger

Hazard Statements

Harmful if swallowed. HARMFUL IF INHALED. Causes serious eye damage. May cause an allergic skin reaction. May cause genetic defects. May cause cancer. May cause damage to organs through prolonged or repeated exposure.



Appearance Powder

Physical State Solid, Powder

Odor None

Precautionary Statements

Precautionary Statements - Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. Do not breathe dust/fume/gas/mist/vapors/spray.

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention. Specific treatment (see Section 4 on this SDS).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Precautionary Statements - Storage

Store in a dry place.

Precautionary Statements - Disposal

Dispose of in accordance with federal, state and local regulations.

Hazards not otherwise classified (HNOC)

Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Product dust may be irritating to eyes, skin and respiratory system.

Other Information

Unknown acute toxicity

1.13989 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

| Components | CAS No. | Weight-% | Trade Secret |
|---|------------|-----------|--------------|
| Barium sulfate | 7727-43-7 | 10 - 30 | * |
| 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris(oxiranylmethyl)- | 2451-62-9 | 1 - 5 | * |
| Titanium dioxide | 13463-67-7 | 1 - 5 | * |
| C.I. Pigment Blue 15 | 147-14-8 | 1 - 5 | * |
| Iron manganese oxide | 75864-23-2 | 1 - 5 | * |
| Quartz | 14808-60-7 | 0.1 - 1.0 | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

| | |
|---------------------------|---|
| Skin Contact | Wash off immediately with soap and plenty of water. Take off contaminated clothing and wash before reuse. In the case of skin irritation or allergic reactions see a physician. |
| Inhalation | Remove to fresh air. |
| Ingestion | None under normal use conditions. Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician if necessary. |
| Notes to Physician | Treat symptomatically. |

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use, Foam, Dry chemical or CO2

Unsuitable Extinguishing Media

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

Specific Hazards Arising from the Chemical

Fine dust dispersed in air may ignite. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Explosion Data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Ensure adequate ventilation. Use personal protection equipment. Avoid dust formation. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

Environmental precautions

Environmental precautions

See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Cleaning Up

Prevent environmental discharge consistent with regulatory requirements. Use non-sparking tools. Pick up and transfer to properly labeled containers. Disposal should be in accordance with applicable regional, national and local laws and regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling

Use personal protection equipment. Avoid contact with eyes, skin and clothing. Do not breathe dust. Avoid dust formation. Do not ingest.

Conditions for safe storage, including any incompatibilities

Storage

Keep container tightly closed. Store in accordance with local regulations. Store in a dry place. Store at room temperature.

Incompatible Products

Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

| Components | ACGIH TLV | OSHA PEL | NIOSH IDLH | AIHA - WEEL |
|--|--|--|--|-------------|
| Barium sulfate 7727-43-7 | TWA: 5 mg/m ³ | TWA: 15 mg/m ³ TWA: 5 mg/m ³ (vacated) TWA: 10 mg/m ³ (vacated) TWA: 5 mg/m ³ | TWA: 10 mg/m ³ TWA: 5 mg/m ³ | - |
| 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris(oxiranylmethyl)- 2451-62-9 | TWA: 0.05 mg/m ³ | - | - | - |
| Titanium dioxide 13463-67-7 | TWA: 10 mg/m ³ | TWA: 15 mg/m ³ (vacated) TWA: 10 mg/m ³ | IDLH: 5000 mg/m ³ TWA: 2.4 mg/m ³ TWA: 0.3 mg/m ³ | - |
| C.I. Pigment Blue 15 147-14-8 | TWA: 1 mg/m ³ | - | IDLH: 100 mg/m ³ TWA: 1 mg/m ³ | - |
| Iron manganese oxide 75864-23-2 | TWA: 1 mg/m ³ TWA: 0.02 mg/m ³ TWA: 0.1 mg/m ³ | (vacated) TWA: 1 mg/m ³ (vacated) Ceiling: 5 mg/m ³ Ceiling: 5 mg/m ³ | IDLH: 500 mg/m ³ TWA: 1 mg/m ³ STEL: 3 mg/m ³ | - |
| Quartz 14808-60-7 | TWA: 0.025 mg/m ³ | TWA: 50 µg/m ³ (vacated) TWA: 0.1 mg/m ³ | IDLH: 50 mg/m ³ TWA: 0.05 mg/m ³ | - |

Appropriate engineering controls

Engineering Measures

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Avoid contact with eyes. Eye protection.

Skin and Body Protection

Wear protective gloves/protective clothing.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Take off contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State
Appearance
Color

Solid, Powder
Powder
No information available

Odor
Odor Threshold

Odorless
No data available

Property
pH

Values
Specific test data for the substance or mixture is not available

Remarks • Method

Melting point / freezing point
Boiling Point / Boiling Range

No information available
Specific test data for the substance or mixture is not available

Flash Point

Specific test data for the substance or mixture is not available

Evaporation Rate
Flammability (solid, gas)
Flammability Limit in Air

No information available
No information available

Upper Explosive Limits
Lower Explosive Limits
Vapor pressure
Vapor Density

70 g/m³
30 g/m³
Negligible
Specific test data for the substance or mixture is not available

| | |
|-------------------------------------|--|
| Specific Gravity | 1.2-1.8 |
| Water Solubility | Immiscible in water |
| Solubility in other solvents | Specific test data for the substance or mixture is not available |
| Partition coefficient | No information available |
| Autoignition Temperature | No information available |
| Decomposition Temperature | No information available |
| Kinematic viscosity | No information available |
| Dynamic viscosity | Specific test data for the substance or mixture is not available |
| Explosive Properties | No information available |
| Oxidizing Properties | No information available |

Other Information

| | |
|------------------------|--|
| Softening Point | Specific test data for the substance or mixture is not available |
| Solids | 100% |

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Excessive heat.

Incompatible Materials

Strong oxidizing agents, strong acids, and strong bases.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| | |
|----------------------------|--|
| Product Information | Substances which cause concern for man owing to possible mutagenic effects but for which the available information is not adequate for making a satisfactory assessment. |
| Inhalation | May cause irritation of respiratory tract. |
| Eye Contact | Contact with eyes may cause irritation. |
| Skin Contact | Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Repeated exposure may cause skin dryness or cracking. May cause irritation. |
| Ingestion | Not an expected route of exposure. May be harmful if swallowed. |

| Components | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|----------------------|---|
| Barium sulfate 7727-43-7 | = 307000 mg/kg (Rat) | - | - |
| 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris(oxiranylmethyl)- 2451-62-9 | = 302 mg/kg (Rat) = 188 mg/kg (Rat) | > 2000 mg/kg (Rat) | = 0.65 mg/L (Rat) 4 h > 0.65 mg/L (Rat) 4 h |
| Titanium dioxide 13463-67-7 | > 10000 mg/kg (Rat) | - | - |
| C.I. Pigment Blue 15 147-14-8 | > 10000 mg/kg (Rat) | - | - |

Information on toxicological effects

| | |
|-----------------|---|
| Symptoms | Specific test data for the substance or mixture is not available. |
|-----------------|---|

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

May cause sensitization in susceptible persons.

Mutagenic Effects

This product contains one or more substances which are classified in the EU as carcinogenic, mutagenic and/or reprotoxic.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen

| Components | ACGIH | IARC | NTP | OSHA |
|--------------------------------|-------|----------|-------|------|
| Titanium dioxide 13463-67-7 | - | Group 2B | - | X |
| Quartz 14808-60-7 | A2 | Group 1 | Known | X |

Reproductive Toxicity

No information available

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Chronic Toxicity

Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. Experiments have shown reproductive toxicity effects on laboratory animals. See Section 11 for additional Toxicological Information.

Aspiration Hazard

No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

| | |
|-------------------------------|-----------|
| ATEmix (oral) | 1,099.80 |
| ATEmix (dermal) | 42,956.62 |
| ATEmix (inhalation-dust/mist) | 4.19 |

12. ECOLOGICAL INFORMATION

Ecotoxicity

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Components | Algae/aquatic plants | Toxicity to Fish | Daphnia Magna (Water Flea) |
|---|----------------------|--|----------------------------|
| 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris(oxiranylmethyl)- - 2451-62-9 | N/A | 77: 96 h Danio rerio mg/L LC50 static | N/A |
| C.I. Pigment Blue 15 - 147-14-8 | N/A | 100: 48 h Oryzias latipes mg/L LC50 static | N/A |

Persistence and Degradability

No information available.

Bioaccumulation/Accumulation

No information available.

| Components | log Pow |
|----------------------------------|---------|
| C.I. Pigment Blue 15 147-14-8 | 6.6 |

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Methods

Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging

Do not reuse empty containers.

14. TRANSPORT INFORMATION

DOT

Not regulated.

IATA Not regulated.

IMDG/IMO Not regulated.

15. REGULATORY INFORMATION

TSCA 8(b) All components are listed or exempt
DSL At least one component is not listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Components | Weight-% | SARA 313 - Threshold Values % |
|-----------------------------------|----------|-------------------------------|
| C.I. Pigment Blue 15 - 147-14-8 | 1 - 5 | 1.0 |
| Iron manganese oxide - 75864-23-2 | 1 - 5 | 1.0 |

SARA 311/312 Hazard Categories

| | |
|--|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | Yes |
| Fire Hazard | Yes |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

| Components | Weight-% | HAPS data |
|------------------------------------|----------|-----------|
| Iron manganese oxide 75864-23-2 | 1 - 5 | |
| Ethylene glycol 107-21-1 | < 0.1% | Present |

CWA (Clean Water Act)

See information supplied by the manufacturer

CERCLA

See information supplied by the manufacturer

US State Regulations

California Proposition 65

WARNING: This product can expose you to one or more chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to www.P65Warnings.ca.gov. See section 3 of the SDS for Proposition 65 substances present at or above 0.1 weight percent. Please contact the Regulatory Department if additional information is required.

U.S. EPA Label Information

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

| | | | | |
|-------------|------------------|----------------|--------------------|---------------------------------|
| NFPA | Health Hazard 3 | Flammability 1 | Instability 0 | Physical and Chemical Hazards - |
| HMIS | Health Hazard 3* | Flammability 1 | Physical hazards 0 | Personal Precautions X |

Revision Date 28-Jul-2020

Revision Note

No information available

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet