



SAFETY DATA SHEET

Issue Date No data available

Revision Date 1-Jan-2016

Version 1

1. IDENTIFICATION

Product identifier

Product Name FBL-200

Recommended use of the chemical and restrictions on use

Recommended Use Fire/Thermal Barrier

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address

International Coatings Group
757 SE 17th Street, Suite 846
Fort Lauderdale, FL 33316

Emergency telephone number

Company Phone Number (954) 306 9100 (not staffed 24/7)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

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

Label elements

Emergency Overview

Appearance White liquid Physical state Liquid Odor Light ammonia

Hazards not otherwise classified (HNOC)

Other Information

In February 2006, IARC reclassified Titanium Dioxide (TiO_2) from Class 3: Unclassifiable as to carcinogenicity in humans; to 2-B: Possibly carcinogenic to humans. This SDS is revised accordingly. The IARC reclassification was based upon animal (rat) studies conducted in 1985 and 1989. This data was derived from animal studies involving extremely high, long duration, airborne respirable TiO_2 concentrations which placed a severe burden upon the lungs of the laboratory animals and overwhelmed the lung clearance mechanism. These animal exposure conditions have no relevance to human occupational exposure. The large volume of historical epidemiological data indicates no correlation between real-world human exposure and this animal exposure data. These animal test results are not confirmed or corroborated by extensive industrial experience. Titanium dioxide continues to be viewed by OSHA (PEL: 15 mg/m^3) and ACGIH (TLV: 10 mg/m^3) as a substance of relatively low inhalation toxicity. No changes in the OSHA regulatory exposure standard or the ACGIH consensus guideline have been initiated as of this SDS writing.

Unknown Acute Toxicity

<40% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Ammonium Polyphosphate	68333-79-9	20 - 30
Water	7732-18-5	<20
2,4,6,-Triamino-1,3,5-triazine	108-78-1	5 - 10
Pentaerythritol	115-77-5	5 - 10
Titanium Dioxide	13463-67-7	<10
Glass, oxide	65997-17-3	<10
Aluminum Trihydrate	2145-51-2	<5
Nonylphenoxypolyethoxyethanol	127087-87-0	<5
Coalescing Aid	N/A	<5

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

4. FIRST AID MEASURES

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 skin with soap and water.
Inhalation	Remove to fresh air.
Ingestion	Rinse mouth. Do NOT induce vomiting. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

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, especially in confined areas.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in sealed containers, in a cool dry area with ventilation suitable for storing materials. Keep away from direct sunlight. Do not store at temperatures above 39°C (102° F). Keep from freezing. Do not store at temperature below 32°F (0°C).

Incompatible materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Pentaerythritol 115-77-5	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust
Titanium Dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust	IDLH: 5000 mg/m ³
Glass, oxide 65997-17-3	TWA: 1 fiber/cm ³ respirable fibers: length >5 µm, aspect ratio ≥3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase- contrast illumination TWA: 5 mg/m ³ inhalable fraction	-	-

Appropriate engineering controls

Engineering Controls Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Personal Protective Equipment As indicated below.

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and 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.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	Light ammonia
Appearance	White liquid	Odor threshold	No information available
Color	White		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting point/freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	None	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific Gravity	1.37	
Water solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content	19 g/L
Density	1443 g/L
Bulk density	No information available

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

Extremes of temperature and direct sunlight.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Product Information	No data available
Inhalation	No data available.
Eye contact	No data available.
Skin Contact	No data available.
Ingestion	No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium Polyphosphate 68333-79-9	= 4740 mg/kg (Rat)	-	-
Water 7732-18-5	> 90 mL/kg (Rat)	-	-
2,4,6,-Triamino-1,3,5-triazine 108-78-1	= 3161 mg/kg (Rat)	> 1 g/kg (Rabbit)	-
Pentaerythritol 115-77-5	= 10000 mg/kg (Rat)	-	-
Titanium Dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
Nonylphenoxypolyethoxyethanol 127087-87-0	= 1310 mg/kg (Rat)	-	-

Information on toxicological effects

Symptoms No information available.

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

Sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
2,4,6,-Triamino-1,3,5-triazine 108-78-1	-	Group 3	-	-
Titanium Dioxide 13463-67-7	-	Group 2B	-	X
Glass, oxide 65997-17-3	-	Group 3	-	-

Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity <40% of the mixture consists of ingredient(s) of unknown toxicity

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

<50% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ammonium Polyphosphate 68333-79-9	-	500: 96 h Brachydanio rerio mg/L LC50 static 123: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 685 - 1066: 96 h Oncorhynchus mykiss mg/L LC50 static 389 - 654: 96 h Pimephales promelas mg/L LC50 static	-	-
2,4,6,-Triamino-1,3,5-triazine 108-78-1	940: 96 h Scenedesmus pannonicus mg/L EC50	3000: 96 h Poecilia reticulata mg/L LC50	-	2000: 48 h Daphnia magna mg/L EC50
Pentaerythritol 115-77-5	-	50000: 48 h Oryzias latipes mg/L LC50 semi-static	-	30477 - 37043: 48 h Daphnia magna mg/L EC50 Static 38900: 24 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

Chemical Name	Partition coefficient
2,4,6,-Triamino-1,3,5-triazine 108-78-1	1.14

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Do not reuse container.

14. TRANSPORT INFORMATION

DOT

Not evaluated

IATA

Not evaluated

IMDG

Not evaluated

RID

Not evaluated

15. REGULATORY INFORMATION

International Inventories

TSCA

All ingredients are on the inventory or exempt from listing

DSL/NDSL

All ingredients are on the inventory or exempt from listing

EINECS/ELINCS

Not evaluated

ENCS

All ingredients are on the inventory or exempt from listing

IECSC

All ingredients are on the inventory or exempt from listing

KECL

Not evaluated

PICCS

Not evaluated

AICS

All ingredients are on the inventory or exempt from listing

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Titanium Dioxide - 13463-67-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2,4,6,-Triamino-1,3,5-triazine 108-78-1	-	X	X
Pentaerythritol 115-77-5	X	X	X
Titanium Dioxide 13463-67-7	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

Canada**WHMIS Hazard Class**

D2A - Very toxic materials



Non-controlled

16. OTHER INFORMATION

Revision Date 1-Jan-2016

Revision Note
No information available

Disclaimer

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.

<p>PREPARED BY: Comprehensive Safety Compliance, Inc. (CSC) Occupational Health and Safety Consultant (412) 826-5480</p>	<p>VERSION NO.: 1</p>	<p>APPROVAL DATE: 1/20/2016</p>
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End of Safety Data Sheet