



Revision date 10-April-2024

SAFETY DATA SHEET

Revision Number 7

1. IDENTIFICATION

Product identifier

Product Name **Federal Standard 27038**

Other means of identification

Product Code(s) **FS-595-27038**

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

APP Companies 7261 Bryan Dairy Rd. • Seminole, FL 33777
(727) 851-9815

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).

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

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. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing must not be allowed out of the workplace. 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.

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

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical name	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	0.1 - 1.0	*
Carbon black	1333-86-4	0.1 - 1.0	*
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

Foam, Dry chemical or CO₂

Unsuitable Extinguishing Media

Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

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 Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

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. Avoid dust formation. Fine dust dispersed in air may ignite. Do not breathe dust. 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. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible Products

Strong oxidizing agents, strong acids, and strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	AIHA - WEEL
Barium sulfate 7727-43-7	TWA: 5 mg/m ³ inhalable particulate matter, particulate matter containing no asbestos and <1% crystalline	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	-
	Silica			

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: 0.2 mg/m ³ nanoscale respirable particulate matter TWA: 2.5 mg/m ³ finescale respirable particulate matter	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	-
Carbon black 1333- 86-4	TWA: 3 mg/m ³ inhalable particulate matter	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³	-
Quartz 14808- 60-7	TWA: 0.025 mg/m ³ respirable particulate matter	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 Solid, Powder

Appearance Color Powder Varies

Odor Odorless
Odor threshold No data available

Property

Values

Remarks • Method

pH No information available
Melting point / freezing point No data available
Boiling Point / Boiling Range No information available
Flash point No information available
Evaporation rate No information available
Flammability No information available
Flammability Limit in Air
Upper flammability or explosive limits 70 g/m³
Lower flammability or explosive limits 30 g/m³
Vapor pressure Negligible
Relative vapor density No information 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 data 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
<u>Other information</u>	
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. Avoid dust formation. Keep away from open flames, hot surfaces and sources of ignition.

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.		

Chemical name	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)	> 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)	-	= 5.09 mg/L (Rat) 4 h
Carbon black 1333-86-4	> 15400 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 4.6 mg/m ³ (Rat) 4 h

Symptoms related to the physical, chemical and toxicological characteristics

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.

Chemical name	ACGIH	IARC	NTP	OSHA
Titanium dioxide 13463-67-7	A3	Group 2B	-	X
Carbon black 1333-86-4	A3	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) 2,214.30
ATEmix (dermal) 31,085.40
ATEmix (inhalation-dust/mist) 14.40

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Chemical name	Algae/aquatic plants	Fish	Crustacea
1,3,5-Triazine-2,4,6-(1H,3H,5H)-trione, 1,3,5-tris(oxiranylmethyl)- - 2451-62-9	Not applicable	LC50: >77mg/L (96h, Danio rerio)	Not applicable

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Chemical name	Partition coefficient
1,3,5-Triazine-2,4,6-(1H,3H,5H)-trione, 1,3,5-tris(oxiranylmethyl)- 2451-62-9	-0.8

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Disposal 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 Not regulated

15. REGULATORY INFORMATION

TSCA 8(b) All components are listed or exempt

DSL All components are listed or exempt

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - 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.

Chemical name	Weight-%	SARA 313 - Threshold Values %
1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris(oxiranylmethyl)- - 2451-62-9	1 - 5	1.0

SARA 311/312 Hazard Categories

Classification :COMBUSTIBLE DUSTS ACUTE TOXICITY (oral) -
Category 4 SKIN SENSITIZATION - Category 1 GERM
CELL MUTAGENICITY - Category 1
CARCINOGENICITY - Category 2 SPECIFIC TARGET
ORGAN TOXICITY (REPEATED EXPOSURE) -
Category 2

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:

Chemical name	Weight-%	HAPS data
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**

<u>NFPA</u>	Health hazards 2	Flammability 0	Instability 0	Special hazards -
<u>HMIS</u>	Health hazards 2	Flammability 0	Physical hazards 0	Personal Precautions X

Revision date 10-April-2024

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