

# T644.6 FEP HIGH FLOW CC STD BLUE

Version Number 1.4 Revision Date 02/25/2022 Page 1 of 15 Print Date 02/26/2022

# SAFETY DATA SHEET

## T644.6 FEP HIGH FLOW CC STD BLUE

# **Section 1. Identification**

**GHS product identifier** : T644.6 FEP HIGH FLOW CC STD BLUE

Chemical name: MixtureCAS number: MixtureOther means of identification: CC01060751Product type: solid

Relevant identified uses of the substance or mixture and uses advised against

**Product use** : Industrial applications. Plastics.

Supplier's details : Colorant Chromatics

Chromatics, Inc.

19 Francis J. Clarke Circle, Bethel, CT 06801, USA

+1 800 242 2296

Emergency telephone number (with hours of operation)

CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or

accident).

# Section 2. Hazards identification

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. Fluoropolymers heated above 350 C can evolve hydrogen fluoride and carbonyl fluoride as degradation products. Processing at elevated temperatures may release fumes that can cause polymer fume fever. The end-user (fabricator) should take necessary precautions (mechanical ventilation, local exhaust, respiratory protection, etc.) to protect employees from exposure to any vapors or dusts that may be released during heating or fabrication. See Sections 8 and 11 for special precautions. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and

other users of this product.

Classification of the substance or

mixture

Not classified.



### SAFETY DATA SHEET

# T644.6 FEP HIGH FLOW CC STD BLUE

Version Number 1.4 Page 2 of 15 Revision Date 02/25/2022 Print Date 02/26/2022

#### **GHS** label elements

**Prevention** 

Signal word : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

#### **Precautionary statements**

Not applicable.Not applicable.Not applicable.Not applicable.

Response:Not applicable.Storage:Not applicable.Disposal:Not applicable.Supplemental label elements:None known.Hazards not otherwise classified:None known.Not available.

# Section 3. Composition/information on ingredients

Substance/mixture: MixtureChemical name: MixtureOther means of identification: CC01060751

#### **CAS** number/other identifiers

Ingredient name	<b>%</b>	CAS number
Cobalt aluminate blue spinel (C.I. Pigment Blue 28)	>= 1 - <= 3	1345-16-0
Titanium dioxide	> 0 - <= 0.3	13463-67-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

# Section 4. First aid measures

## **Description of necessary first aid measures**

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the

upper and lower eyelids. Check for and remove any contact lenses.



# T644.6 FEP HIGH FLOW CC STD BLUE

Version Number 1.4 Page 3 of 15 Revision Date 02/25/2022 Print Date 02/26/2022

Get medical attention if irritation occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable

for breathing. Get medical attention if symptoms occur.

**Skin contact**: Flush contaminated skin with plenty of water. Remove contaminated

clothing and shoes. Get medical attention if symptoms occur.

**Ingestion**: Wash out mouth with water. Remove victim to fresh air and keep at

rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by

medical personnel. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

#### **Potential acute health effects**

Eye contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without

suitable training.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

**Unsuitable extinguishing media** : None known.



# T644.6 FEP HIGH FLOW CC STD BLUE

Version Number 1.4 Page 4 of 15 Revision Date 02/25/2022 Print Date 02/26/2022

Specific hazards arising from the chemical

: No specific fire or explosion hazard.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide

carbon monoxide
halogenated compounds

Special protective actions 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.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated

in positive pressure mode.

# Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note

of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions**: Avoid dispersal of spilled material and runoff and contact with soil,

waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil

or air).

#### Methods and materials for containment and cleaning up

Small spill : Move containers from spill area. Vacuum or sweep up material and

place in a designated, labeled waste container. Dispose of via a

licensed waste disposal contractor.

Large spill : Move containers from spill area. Prevent entry into sewers, water

courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency

contact information and Section 13 for waste disposal.

# Section 7. Handling and storage



# T644.6 FEP HIGH FLOW CC STD BLUE

Version Number 1.4 Revision Date 02/25/2022 Page 5 of 15 Print Date 02/26/2022

### Precautions for safe handling

Protective measures Advice on general occupational hygiene Put on appropriate personal protective equipment (see Section 8).
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

# Occupational exposure limits

Ingredient name	Exposure limits
Cobalt aluminate blue spinel (C.I. Pigment Blue 28)	ACGIH TLV (1994-09-01) Inhalation sensitizer Skin sensitizer TWA 0.02 mg/m3 (as CO)
Titanium dioxide	OSHA PEL 1989 (1989-03-01) TWA 10 mg/m3 Form: Total dust OSHA PEL (1993-06-30) TWA 15 mg/m3 Form: Total dust ACGIH TLV (1996-05-18) TWA 10 mg/m3

**Appropriate engineering controls** 

Good general ventilation should be sufficient to control worker

exposure to airborne contaminants.

**Environmental exposure controls** 

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.



# T644.6 FEP HIGH FLOW CC STD BLUE

Version Number 1.4 Revision Date 02/25/2022 Page 6 of 15 Print Date 02/26/2022

#### **Individual protection measures**

**Hygiene measures**: Wash hands, forearms and face thoroughly after handling chemical

products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used

when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a

higher degree of protection: safety glasses with side-shields.

**Skin protection** 

**Hand protection**: Chemical-resistant, impervious gloves complying with an approved

standard should be worn at all times when handling chemical products

if a risk assessment indicates this is necessary.

**Body protection**: Personal protective equipment for the body should be selected based

on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures

should be selected based on the task being performed and the risks

involved and should be approved by a specialist before handling this

product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that

meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper

fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

# Appearance

Physical state : solid [Pellets.]

Color : BLUE

Odor
Odor threshold
Odor threshold
PH
Not available.
Flash point
Not available.
Burning time
Not available.



# T644.6 FEP HIGH FLOW CC STD BLUE

Version Number 1.4 Page 7 of 15 Revision Date 02/25/2022 Print Date 02/26/2022

**Burning rate** Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not available.

Lower and upper explosive **Lower:** Not available. (flammable) limits **Upper:** Not available.

Vapor pressure Not available. Vapor density Not available. Relative density Not available. **Solubility** Not available. Solubility in water Not available. Partition coefficient: n-Not available.

octanol/water

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **SADT** 

Viscosity **Dynamic:** Not available.

**Kinematic:** Not available.

#### Aerosol product

**Heat of combustion** Not available.

**Ignition distance** Not available. **Enclosed space ignition - Time** Not available.

equivalent

**Enclosed space ignition -**

**Deflagration density** 

Not available. Flame height Flame duration Not available.

# Section 10. Stability and reactivity

Reactivity No specific test data related to reactivity available for this product or

its ingredients.

Not available.

**Chemical stability** Stable under recommended storage and handling conditions (see

Section 7).

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will

Keep away from extreme heat and oxidizing agents. Conditions to avoid

Keep away from strong acids. **Incompatible materials** 

Oxidizer.

**Hazardous decomposition** 

products

Under normal conditions of storage and use, hazardous decomposition

products should not be produced.



## SAFETY DATA SHEET

# T644.6 FEP HIGH FLOW CC STD BLUE

Version Number 1.4 Page 8 of 15 Revision Date 02/25/2022 Print Date 02/26/2022

# Section 11. Toxicological information

## **Information on toxicological effects**

**Acute toxicity** 

Product/ingredient name	Result	Species	Dose	Exposure
Titanium oxide (TiO2)				
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	Dusts and mists		_	
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-

**Conclusion/Summary**: Mixture.Not fully tested.

**Irritation/Corrosion** 

**Conclusion/Summary** 

Skin: Mixture.Not fully tested.Eyes: Mixture.Not fully tested.Respiratory: Mixture.Not fully tested.

**Sensitization** 

Conclusion/Summary

Skin: Mixture.Not fully tested.Respiratory: Mixture.Not fully tested.

**Mutagenicity** 

Conclusion/Summary : Mixture.Not fully tested.

**Carcinogenicity** 

**Conclusion/Summary** : Mixture.Not fully tested.

Classification

Product/ingredient name	OSHA	IARC	NTP
C.I. Pigment Blue 28	-	2B	Reasonably anticipated to be a human carcinogen.
Titanium oxide (TiO2)	-	2B	-

#### **Reproductive toxicity**

**Conclusion/Summary** : Mixture. Not fully tested.

**Teratogenicity** 



### SAFETY DATA SHEET

# T644.6 FEP HIGH FLOW CC STD BLUE

Version Number 1.4 Revision Date 02/25/2022 Page 9 of 15 Print Date 02/26/2022

**Conclusion/Summary** : Mixture. Not fully tested.

### **Specific target organ toxicity (single exposure)**

Not available.

## Specific target organ toxicity (repeated exposure)

Not available.

## **Aspiration hazard**

Not available.

Information on the likely routes of :

the likely rout

Not available.

exposure

#### Potential acute health effects

Eye contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

# Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

**Conclusion/Summary** : Mixture. Not fully tested.

General : No known significant effects or critical hazards.



# T644.6 FEP HIGH FLOW CC STD BLUE

 Version Number 1.4
 Page 10 of 15

 Revision Date 02/25/2022
 Print Date 02/26/2022

Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
T644.6 FEP HIGH FLOW CC STD BLUE	N/A	N/A	N/A	N/A	6.82 Mg/l
Titanium oxide (TiO2)	N/A	N/A	N/A	N/A	6.82 Mg/l

**Other information**: This mixture has not been evaluated as a whole for health effects.

Exposure effects listed are based on existing health data for the

individual components which comprise the mixture.

# Section 12. Ecological information

## **Toxicity**

Product/ingredient name	Result	Species	Exposure	
Titanium oxide (TiO2)				
	Acute LC50 > 1,000 Mg/l	Fish - Fundulus heteroclitus	96 h	
	Marine water			
	Acute LC50 3 Mg/l Fresh water	Crustaceans - Ceriodaphnia	48 h	
		dubia		
	Acute LC50 6.5 Mg/l Fresh	Daphnia - Daphnia pulex	48 h	
	water			
T644.6 FEP HIGH FLOW CC STD BLUE				
Remarks - Acute - Aquatic	Chemicals are not readily available as they are bound within the polymer matrix.			
invertebrates.:	-			

Conclusion/Summary : Chemicals are not readily available as they are bound within the

polymer matrix.



# T644.6 FEP HIGH FLOW CC STD BLUE

Version Number 1.4 Revision Date 02/25/2022 Page 11 of 15 Print Date 02/26/2022

Persistence and degradability

**Conclusion/Summary**: Chemicals are not readily available as they are bound within the

polymer matrix.

**Conclusion/Summary**: Chemicals are not readily available as they are bound within the

polymer matrix.

**Bioaccumulative potential** 

Not available.

Mobility in soil

Soil/water partition coefficient

(KOC)

Not available.

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

# **Section 14. Transport information**

U.S.DOT 49CFR Ground/Air/Water : Not regulated for transportation.



# T644.6 FEP HIGH FLOW CC STD BLUE

Version Number 1.4 Revision Date 02/25/2022 Page 12 of 15 Print Date 02/26/2022

International Air ICAO/IATA

: Consult mode specific transport rules

International Water

IMO/IMDG

: Consult mode specific transport rules

# Section 15. Regulatory information

U.S. Federal regulations : United States - TSCA 12(b) - Chemical export notification: None

of the components are listed.

United States - TSCA 4(a) - Final Test Rules: Not listed United States - TSCA 4(a) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed test rules: Not listed United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 5(a)2 - Final significant new use rules: Not

listed

United States - TSCA 5(a)2 - Proposed significant new use rules:

Not listed

United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Not listed United States - TSCA 6 - Proposed risk management: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined

United States - TSCA 8(a) - Preliminary assessment report

(PAIR): Not listed

United States - TSCA 8(c) - Significant adverse reaction (SAR):

Not listed

United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority

pollutants: Not listed United States - EPA Clean water act (CWA) section 311 -

Hazardous substances: Not listed

United States - EPA Clean air act (CAA) section 112 - Accidental

release prevention - Flammable substances: Not listed

United States - EPA Clean air act (CAA) section 112 - Accidental

release prevention - Toxic substances: Not listed

**United States - Department of commerce - Precursor chemical:** 

Not listed

Clean Air Act Section 112(b) : Listed



## SAFETY DATA SHEET

# T644.6 FEP HIGH FLOW CC STD BLUE

Version Number 1.4 Page 13 of 15 Revision Date 02/25/2022 Print Date 02/26/2022

Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I : Not listed

**Substances** 

Clean Air Act Section 602 Class II : Not listed

**Substances** 

**DEA List I Chemicals (Precursor**: Not listed

Chemicals)

**DEA List II Chemicals (Essential**: Not listed

**Chemicals**)

## US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

**SARA 311/312** 

Classification : Not applicable.

#### **Composition/information on ingredients**

No products were found.

Name	%	Classification
C.I. Pigment Blue 28	>= 1 - <= 3	CARCINOGENICITY - Category 2
Titanium oxide (TiO2)	> 0 - <= 0.3	CARCINOGENICITY - Category 2
		5 •

#### Form R - Reporting requirements

Product name	CAS number	%
Cobalt aluminate blue spinel (C.I. Pigment Blue 28)	1345-16-0	>= 1 - <= 3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Not applicable.

**State regulations** 

Massachusetts: None of the components are listed.New York: None of the components are listed.New Jersey: The following components are listed:

Cobalt aluminate blue spinel (C.I. Pigment Blue 28)

Titanium dioxide

**Pennsylvania** : The following components are listed:

13/15



# T644.6 FEP HIGH FLOW CC STD BLUE

Version Number 1.4 Revision Date 02/25/2022 Page 14 of 15 Print Date 02/26/2022

Cobalt aluminate blue spinel (C.I. Pigment Blue 28)

Titanium dioxide

#### California Prop. 65

**WARNING:** This product can expose you to Titanium dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Titanium dioxide	-	-

United States inventory (TSCA 8b) : All components are active or exempted.

**Canada inventory** : All components are listed or exempted.

#### **International regulations**

## **Inventory list**

Australia All components are listed or exempted. All components are listed or exempted. Canada All components are listed or exempted. China **Europe inventory** All components are listed or exempted. Japan All components are listed or exempted. **New Zealand** All components are listed or exempted. All components are listed or exempted. **Philippines** Republic of Korea All components are listed or exempted. Taiwan All components are listed or exempted. **Turkey** Not determined.

**United States** : All components are active or exempted.

# Section 16. Other information

#### Hazardous Material Information System (U.S.A.)

Health	/	0
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required



# T644.6 FEP HIGH FLOW CC STD BLUE

Version Number 1.4 Revision Date 02/25/2022 Page 15 of 15 Print Date 02/26/2022

on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

**History** 

Date of printing: 02/26/2022Date of issue/Date of revision: 02/25/2022Date of previous issue: 05/28/2021

Version : 1.4

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of

Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From

Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine

pollution)

UN = United Nations Not available.

#### Notice to reader

References

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.