

### S178.2 ETFE2185 CC SUPER RED

Version Number 1.0 Page 1 of 15 Revision Date 11/29/2015 Print Date 12/02/2015

# SAFETY DATA SHEET

#### S178.2 ETFE2185 CC SUPER RED

## **Section 1. Identification**

**GHS product identifier** : S178.2 ETFE2185 CC SUPER RED

Chemical name: MixtureCAS number: MixtureOther means of identification: CC01059855

**Product 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 for health effects. All ingredients are bound in a polymer matrix and potential for hazardous exposure as shipped is minimal. 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

## S178.2 ETFE2185 CC SUPER RED

Version Number 1.0 Page 2 of 15 Revision Date 11/29/2015 Print Date 12/02/2015

#### **GHS** label elements

Signal word : No signal word.

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

#### **Precautionary statements**

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

## Section 3. Composition/information on ingredients

Substance/mixture: MixtureChemical name: MixtureOther means of identification: CC01059855

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

Ingredient name	<b>%</b>	CAS number
Zinc oxide	5 - 10	1314-13-2

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.

Get medical attention if irritation occurs.



## S178.2 ETFE2185 CC SUPER RED

Version Number 1.0 Page 3 of 15 Print Date 12/02/2015 Revision Date 11/29/2015

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

> for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

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

No known significant effects or critical hazards. Eye contact

Exposure to decomposition products may cause a health hazard. Inhalation

Serious effects may be delayed following exposure.

No known significant effects or critical hazards. Skin contact **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 In case of inhalation of decomposition products in a fire, symptoms

may be delayed. The exposed person may need to be kept under

medical surveillance for 48 hours.

No specific treatment. **Specific treatments** 

**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



### S178.2 ETFE2185 CC SUPER RED

Version Number 1.0 Page 4 of 15
Revision Date 11/29/2015 Print Date 12/02/2015

Suitable extinguishing media Unsuitable extinguishing media In case of fire, use water spray (fog), foam, dry chemical or  $CO_2$ .

: None known.

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 nitrogen oxides

halogenated compounds metal oxide/oxides

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 specialised 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



## S178.2 ETFE2185 CC SUPER RED

Version Number 1.0 Revision Date 11/29/2015 Page 5 of 15 Print Date 12/02/2015

licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### 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		
Zinc oxide	OSHA PEL 1989 (1989-03-01)		
	PEL: Permissible Exposure Level 5 mg/m3 Form: Fume		
	Short Term Exposure Limit value for a 15-minute reference		
	period expressed in parts per million or in mg/m3. 10 mg/m3		
	Form: Fume		
	PEL: Permissible Exposure Level 10 mg/m3 Form: Total dust		
	<b>PEL: Permissible Exposure Level</b> 5 mg/m3 Form: Respirable		
	fraction		
	OSHA PEL (1993-06-30)		
	PEL: Permissible Exposure Level 5 mg/m3 Form: Fume		
	<b>PEL: Permissible Exposure Level</b> 15 mg/m3 Form: Total dust		
	<b>PEL: Permissible Exposure Level</b> 5 mg/m3 Form: Respirable		
	fraction		
	NIOSH REL (1994-06-01)		



### S178.2 ETFE2185 CC SUPER RED

Version Number 1.0 Revision Date 11/29/2015

Page 6 of 15 Print Date 12/02/2015

Time Weighted Average (TWA) 5 mg/m3 Form: Dust and fumes
Short Term Exposure Limit value for a 15-minute reference
period expressed in parts per million or in mg/m3. 10 mg/m3
Form: Fume
<b>Exposure limit value-ceiling concentration</b> 15 mg/m3 Form: Dust
ACGIH TLV (2003-01-01)
TLV-TWA: Threshold Limit Value - Time weighted average PEL:
Permissible Exposure Level 2 mg/m3 Form: Respirable fraction
TLV-STEL: Threshold Limit Value - Short Time Exposure Level
10 mg/m3 Form: Respirable fraction

**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.

#### **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.



#### SAFETY DATA SHEET

## S178.2 ETFE2185 CC SUPER RED

Version Number 1.0 Revision Date 11/29/2015 Page 7 of 15 Print Date 12/02/2015

**Respiratory protection**: Use a properly fitted, particulate filter respirator complying with an

approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the

selected respirator.

# Section 9. Physical and chemical properties

#### **Appearance**

Physical state : solid [Pellets.]

Color : RED

Odor Not available. **Odor threshold** Not available. Not available. pН **Melting point** Not available. **Boiling point** Not available. Flash point Not available. Not available. **Burning time 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

Vapor density

Relative density

Solubility

Solubility in water

Partition coefficient: n
Not available.

Not available.

Not available.

Not available.

Not available.

octanol/water

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

Viscosity : Dynamic: Not available.

Kinematic: Not available.

## Section 10. Stability and reactivity

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

its ingredients.

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



## **SAFETY DATA SHEET**

## S178.2 ETFE2185 CC SUPER RED

Version Number 1.0 Page 8 of 15 Revision Date 11/29/2015 Print Date 12/02/2015

not occur.

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

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

Oxidizer.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition

products should not be produced.

## Section 11. Toxicological 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.

### **Information on toxicological effects**

#### **Acute toxicity**

**Conclusion/Summary** : No results available.

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Zinc oxide	Eyes - Mild irritant	Rabbit		24 hrs	-
	Skin - Mild irritant	Rabbit		24 hrs	-

Conclusion/Summary

Skin : No results available.

Eyes : Mixture.
Respiratory : Mixture.

#### **Sensitization**

Conclusion/Summary

**Skin** : No results available.

**Respiratory** : Mixture.

**Mutagenicity** 

**Conclusion/Summary** : No results available.

Carcinogenicity

**Conclusion/Summary** : No results available.

**Reproductive toxicity** 



#### SAFETY DATA SHEET

## S178.2 ETFE2185 CC SUPER RED

Version Number 1.0 Page 9 of 15 Print Date 12/02/2015 Revision Date 11/29/2015

No results available. Conclusion/Summary

**Teratogenicity** 

Conclusion/Summary No results available.

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

exposure

Not available.

Potential acute health effects

No known significant effects or critical hazards. **Eve contact** 

Exposure to decomposition products may cause a health hazard. Inhalation

Serious effects may be delayed following exposure.

**Skin contact** No known significant effects or critical hazards. No known significant effects or critical hazards. **Ingestion** 

Symptoms related to the physical, chemical and toxicological characteristics

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

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

**Short term exposure** 

Not available. **Potential immediate effects Potential delayed effects** Not available.

Long term exposure

**Potential immediate effects** Not available. **Potential delayed effects** Not available.



## **SAFETY DATA SHEET**

## S178.2 ETFE2185 CC SUPER RED

Version Number 1.0 Page 10 of 15 Revision Date 11/29/2015 Print Date 12/02/2015

#### **Potential chronic health effects**

**Conclusion/Summary** : No results available.

General:No known significant effects or critical hazards.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**

Not available.

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Zinc oxide			
	Acute LC50 2,246,000 μg/l Fresh	Fish - Fish	96 h
	water		
	Acute LC50 1.1 mg/l Fresh water	Fish - Fish	96 h
	Acute LC50 2.525 mg/l Fresh	Fish - Fish	96 h
	water		
	Acute LC50 3.969 mg/l Fresh	Fish - Fish	96 h
	water		
	Acute LC50 98 μg/l Fresh water	Aquatic invertebrates.	48 h
		Daphnia	
	Acute EC50 1 mg/l Fresh water	Aquatic invertebrates.	48 h
		Daphnia	
	Acute EC50 0.622 mg/l Fresh	Aquatic invertebrates.	48 h
	water	Daphnia	
	Acute LC50 1.25 mg/l Fresh water	Aquatic invertebrates.	48 h
		Daphnia	
	Acute EC50 0.481 mg/l Fresh	Aquatic invertebrates.	48 h
	water	Daphnia	
	Acute IC50 46 µg/l Fresh water	Aquatic plants - Algae	72 h
	Acute IC50 63 µg/l Fresh water	Aquatic plants - Algae	72 h
	Acute IC50 1.85 mg/l Marine water	Aquatic plants - Algae	96 h



#### SAFETY DATA SHEET

## S178.2 ETFE2185 CC SUPER RED

Version Number 1.0 Page 11 of 15 Revision Date 11/29/2015 Print Date 12/02/2015

Acute IC50 2.97 mg/l Marine water	Aquatic plants - Algae	96 h
Acute IC50 2.36 mg/l Marine water	Aquatic plants - Algae	96 h

**Conclusion/Summary** : Not available.

Persistence and degradability

**Conclusion/Summary** : Not available.

**Bioaccumulative potential** 

Product/ingredient name	LogPow	BCF	Potential
Zinc oxide		60,960.00	high

#### 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 Classification : Not regulated for transportation.

ICAO/IATA : Consult mode specific transport rules

11/15



### S178.2 ETFE2185 CC SUPER RED

Version Number 1.0 Revision Date 11/29/2015 Page 12 of 15 Print Date 12/02/2015

IMO/IMDG (maritime) : 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 year rules. No

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: Listed Zinc oxide

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) Hazardous Air Pollutants (HAPs)

Not listed

Clean Air Act Section 602 Class I

Not listed

Substances

Clean Air Act Section 602 Class II

Substances

Not listed



#### SAFETY DATA SHEET

## S178.2 ETFE2185 CC SUPER RED

Version Number 1.0 Page 13 of 15 Revision Date 11/29/2015 Print Date 12/02/2015

**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**

Name	%	Classification
Zinc oxide	5 - 10	AH

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	Zinc oxide	1314-13-2	5 - 10
Supplier notification	Zinc oxide	1314-13-2	5 - 10

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.

**State regulations** 

Massachusetts : The following components are listed:

Zinc oxide

New York : None of the components are listed.

New Jersey : The following components are listed:

Zinc oxide

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

Zinc oxide

#### California Prop. 65

This PolyOne product does not contain any chemical known to the State of California to cause cancer, or birth defects or other reproductive harm, in concentrations that require a warning notice under California's Proposition 65. This statement relies in part on information provided by the buyer of this PolyOne product. PolyOne does not control or have complete knowledge of the end uses to which that buyer or any other entity in the chain of distribution and marketing may put this PolyOne product. Therefore, the buyer of this PolyOne product, each entity that uses this PolyOne product in formulating another product, and each entity in the chain of distribution and



#### SAFETY DATA SHEET

## S178.2 ETFE2185 CC SUPER RED

Version Number 1.0 Page 14 of 15 Revision Date 11/29/2015 Print Date 12/02/2015

marketing of any product that includes the material in this PolyOne product must make its own decision as to giving

a Proposition 65 warning.

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

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

**International regulations** 

International lists : Australia inventory (AICS): All components are listed or exempted.

**Taiwan inventory (CSNN):** All components are listed or exempted.

Malaysia Inventory (EHS Register): Not determined. EINECS: All components are listed or exempted.

Japan inventory: Not determined.

**China inventory (IECSC):** All components are listed or exempted.

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

New Zealand Inventory of Chemicals (NZIoC): All components

are listed or exempted.

**Philippines inventory (PICCS):** Not determined.

**Chemical Weapons Convention** 

**List Schedule I Chemicals** 

**Chemical Weapons Convention** 

List Schedule II Chemicals

**Chemical Weapons Convention** 

List Schedule III Chemicals

Not listed

Not listed

Not listed

## Section 16. Other information

**History** 

Date of printing: 12/02/2015Date of issue/Date of revision: 11/29/2015Date of previous issue: 00/00/0000

Version : 1.0

**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 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine

pollution)

UN = United Nations

**References** : Not available.



## SAFETY DATA SHEET

## S178.2 ETFE2185 CC SUPER RED

Version Number 1.0 Revision Date 11/29/2015 Page 15 of 15 Print Date 12/02/2015

#### Notice to reader

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