

# XRU-2432 ETFE HIGH STR. HM FREE YELLOW

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# SAFETY DATA SHEET

#### XRU-2432 ETFE HIGH STR. HM FREE YELLOW

# **Section 1. Identification**

**GHS** product identifier XRU-2432 ETFE HIGH STR. HM FREE YELLOW

Chemical name Mixture Mixture CAS number Other means of identification CC10256399 **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. 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.



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#### **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: CC10256399

#### **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.



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**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. Firefighting 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.

**Specific hazards arising from the** : No specific fire or explosion hazard.



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chemical

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide 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 should w

fire-fighters

**Environmental precautions** 

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".

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



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#### 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)		
	TWA 5 mg/m3 Form: Fume		
	STEL 10 mg/m3 Form: Fume		
	TWA 10 mg/m3 Form: Total dust		
	TWA 5 mg/m3 Form: Respirable fraction		
	OSHA PEL (1993-06-30)		
	TWA 15 mg/m3 Form: Total dust		
	TWA 5 mg/m3 Form: Respirable fraction		
	NIOSH REL (1994-06-01)		
	TWA 5 mg/m3 Form: Dust and fumes		
	STEL 10 mg/m3 Form: Fume		
	CEIL 15 mg/m3 Form: Dust		
	ACGIH TLV (2003-01-01)		
	TWA 2 mg/m3 Form: Respirable fraction		
	STEL 10 mg/m3 Form: Respirable fraction		
	OSHA PEL (1993-06-30)		
	TWA 5 mg/m3 Form: Fume		

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker



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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.

**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 : YELLOW
Odor : Not available.



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**Odor threshold** Not available. Not available. **Melting point** Not available. **Boiling point** Not available. Flash point Not available. **Burning time** Not available. **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 pressureNot available.Vapor densityNot available.Relative densityNot available.SolubilityNot available.Solubility in waterNot available.Partition coefficient: n-Not available.

octanol/water

products

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

not occur.

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

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

Oxidizer.

**Hazardous decomposition**: 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**



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#### **Acute toxicity**

Remarks - Oral:	No applicable toxicity data
Remarks - Inhalation:	No applicable toxicity data
Remarks - Dermal:	No applicable toxicity data

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

#### **Irritation/Corrosion**

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

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.

**Reproductive toxicity** 

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

**Teratogenicity** 

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

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

Not available.



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

Not available.

#### **Aspiration hazard**

Not available.

Information on likely routes of

exposure

Not available.

#### 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 as well as 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.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.



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#### Numerical measures of toxicity

### **Acute toxicity estimates**

Not available.

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure		
Zinc oxide					
	Acute LC50 1.1 Mg/l Fresh water	Fish - Fish	96 h		
Remarks - Acute - Fish:	Acute				
	Acute LC50 0.098 Mg/l Fresh	Aquatic invertebrates.	48 h		
	water	Daphnia			
Remarks - Acute - Aquatic	Acute				
invertebrates.:					
	Acute IC50 0.046 Mg/l Fresh water	Aquatic plants - Algae	72 h		
Remarks - Acute - Aquatic	Acute				
plants:					
	Acute IC50 1.85 Mg/l Marine	Aquatic plants - Algae	96 h		
	water				
Remarks - Acute - Aquatic	Acute				
plants:					
Remarks - Chronic - Fish:	No applicable toxicity data				
Remarks - Chronic -	No applicable toxicity data				
Aquatic invertebrates.:					
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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.

#### 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.



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#### **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 49CFR

: Not regulated for transportation.

Ground/Air/Water

International Air ICAO/IATA

: Consult mode specific transport rules

**International Water** 

IMO/IMDG

: Consult mode specific transport rules



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# 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

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

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)

Clean Air Act Section 602 Class I

**Substances** 

Clean Air Act Section 602 Class II

Substances

**DEA List I Chemicals (Precursor** 

Chemicals)

**DEA List II Chemicals (Essential** 

Not listed

Not listed

Not listed

Not listed

Not listed



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

Zinc oxide

The following components are listed: Pennsylvania

Zinc oxide

<u>California Prop. 65</u>
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 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.

All components are listed or exempted. Canada inventory



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#### **International regulations**

#### **Inventory list**

Australia : All components are listed or exempted.
Canada : All components are listed or exempted.
China : All components are listed or exempted.

**Europe inventory** : At least one component is not listed in EINECS but all such

components are listed in ELINCS.

Please contact your supplier for information on the inventory status of

this material.

Japan : All components are listed or exempted.

New Zealand : All components are listed or exempted.

**Philippines** : Not determined.

**Republic of Korea**: All components are listed or exempted. **Taiwan**: All components are listed or exempted.

Turkey : Not determined.

United States : All components are listed 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 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: 10/23/2018Date of issue/Date of revision: 10/10/2018Date of previous issue: 06/13/2017Version: 1.3

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

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of



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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

**References** : Not available.

#### Notice to reader

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.