

Section 1. Identification

Product identifier

Product Identity Other means of identification Chromasphere UV FX Cyan Chromasphere FX Cyan

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

See Technical Data Sheet.

Details of the supplier of the safety data sheet

Company Name

Direct Color Systems 99 Hammermill Rd. Rocky Hill, CT 06067

Emergency 24 hour Emergency Telephone No. Customer Service:

24/7 CHEMTREC 800-424-9300 860-829-2244

Section 2. Hazard(s) identification

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)

Skin corrosion/irritation category 2;H315 Serious eye damage / eye irritation, category	Causes skin irritation. Causes serious eye irritation.
2A;H319	Causes senous eye initation.
Skin sensitizer category 1;H317	May cause an allergic skin reaction.
Specific target organ toxicity, repeated exposure category 1;H372	Causes damage to organs through prolonged or repeated exposure.
Aquatic toxicity (chronic), category 2;H412	Harmful to aquatic life with long lasting effects.



Label elements





Danger

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

[Prevention]

P260 Do not breathe dust, fume, mist, vapors or spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves, eye protection, and face protection.

[Response]

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P314 Get Medical advice or attention if you feel unwell.

P333+313 If skin irritation or a rash occurs: Get medical advice or attention.

P337+313 If eye irritation persists: Get medical advice or attention.

P362+364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

[Storage]

No GHS storage statements



[Disposal]

P501 Dispose of contents or container in accordance with local and national regulations.

Other hazards

This product contains no PBT/vPvB/vPvM chemicals. This product contains no endocrine disrupting chemicals.

Does not contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per the Organisation for Economic Co-operation and Development (OECD) list of Per- and Polyfluoroalkyl Substances (PFASs).

Section 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
2-Propenoic acid, 2-phenoxyethyl ester CAS Number: 48145-04-6 Synonyms: Phenoxyethyl acrylate, PROPENOIC ACID, 2- PHENOXYETHYL ESTER, Glycol ether acrylate	30 - 60	Skin sensitizer category 1;H317 Serious eye damage / eye irritation, category 2;H319 Aquatic toxicity (chronic), category 2;H412	No data available
2-Propenoic acid, (tetrahydro-2-furanyl)methyl ester CAS Number: 2399-48-6 Synonyms: PROPENOIC ACID, (TETRAHYDRO-2-FURANYL)METHYL ESTER	10 - 30	Skin corrosion/irritation category 2;H315 Serious eye damage / eye irritation, category 2;H319	No data available
2h-azepin-2-one, 1-ethenylhexahydro- CAS Number: 2235-00-9 Synonyms: Azepin-2-one, 1-ethenylhexahydro-, Monomer	7-13	Acute toxicity(oral), category 4;H302 Serious eye damage / eye irritation, category 2;H319 Acute toxicity(dermal), category 4;H312 Specific target organ toxicity, repeated exposure category 1;H372	No data available
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-(2,2-dimethyl-1,3- propanediyl)bis[.omega[(1-oxo-2-propenyl)oxy] - CAS Number: 84170-74-1 Synonyms: Propoxylated Neopentyl Glycol Diacrylate Ester	7-13	Not Classified	No data available
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate CAS Number: 84434-11-7 Synonyms: No available information	7-13	Skin sensitizer category 1B;H317 Aquatic toxicity (chronic), category 2;H412	No data available
Pigment CAS Number: Proprietary Synonyms: Pigment	1-5	Combustible Dust	No data available



Chromasphere UV FX Cyan	
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Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Pentaerythritol, ethoxylated, esters with acrylic acid CAS Number: 51728-26-8 Synonyms: Poly(oxy-1,2-ethanediyl), .alphahydroomega[(1-oxo-2- propen-1-yl)oxy]-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1)	1-5	Serious eye damage / eye irritation, category 2A;H319 Skin corrosion/irritation category 2;H315	No data available
2-propenoic acid, 2,2-bis[[(1-oxo-2-propenyl)oxy]methyl]-1,3- propanediyl ester CAS Number: 4986-89-4 Synonyms: Propenoic acid, 2,2-bis[[(1-oxo-2-propenyl)oxy]met		Serious eye damage / eye irritation, category 2;H319 Skin corrosion/irritation category 2;H315 Skin sensitizer category 1;H317	No data available

The actual concentration or concentration range is withheld as a trade secret. *PBT/vPvB - PBT, vPvM or vPvB-substance. The full texts of the phrases are shown in Section 16.

Section 4. First aid measures

Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention.
	Never give anything by mouth to an unconscious person.
Inhalatio	n Remove to fresh air, keep patient warm and at rest. If breathing is irregular or
	stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.
Most imp	portant symptoms and effects, both acute and delayed
Overview	v No specific symptom data available.
	No chronic toxicity or long term toxicity information available. Treat
	symptomatically. See section 2 for further details.
Eyes	Causes serious eye irritation.
A I 1	

Skin May cause an allergic skin reaction. Causes skin irritation.

Section 5. Fire-fighting measures



Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray. Unsuitable extinguishing media: Do not use; water jet.

Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available. Do not breathe dust, fume, mist, vapors or spray.

Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8). Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Environmental precautions

Do not allow spills to enter drains or waterways.

Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.



Section 7. Handling and storage

Precautions for safe handling

Handle containers carefully to prevent damage and spillage. See section 2 for further details. - [Prevention]

Conditions for safe storage, including any incompatibilities

Incompatible materials: No available information See section 2 for further details. - [Storage]

Specific end use(s)

No available information

Section 8. Exposure controls / personal protection

Control parameters

Exposure Limits

CAS No.	Ingredient	Source	Value
147-14-8	Blue pigment	OSHA	1 mg/m ³ (Dusts and mists (as Cu)),
			0.1 mg/m ³ fume)
		ACGIH	No Established Limit
		NIOSH	No Established Limit
2235-00-	2h-azepin-2-one, 1-ethenylhexahydro-	OSHA	No Established Limit
9		ACGIH	No Established Limit
		NIOSH	No Established Limit
2399-48-	2-Propenoic acid, (tetrahydro-2-furanyl)methyl ester	OSHA	No Established Limit
6		ACGIH	No Established Limit
		NIOSH	No Established Limit
4986-89-	2-propenoic acid, 2,2-bis[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester	OSHA	No Established Limit
4		ACGIH	No Established Limit
		NIOSH	No Established Limit
48145-	2-Propenoic acid, 2-phenoxyethyl ester	OSHA	No Established Limit
04-6		ACGIH	No Established Limit
		NIOSH	No Established Limit
51728-	Pentaerythritol, ethoxylated, esters with acrylic acid	OSHA	No Established Limit
26-8		ACGIH	No Established Limit
		NIOSH	No Established Limit
84170-	Poly[oxy(methyl-1,2-ethanediyl)], .alpha., .alpha.'-(2,2-dimethyl-1,3-	OSHA	No Established Limit
74-1	propanediyl)bis[.omega[(1-oxo-2-propenyl)oxy] -	ACGIH	No Established Limit
		NIOSH	No Established Limit
84434-	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	OSHA	No Established Limit
11-7		ACGIH	No Established Limit



CAS No.	Ingredient	Source	Value
		NIOSH	No Established Limit

Exposure controls	
Respiratory	If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
Eyes	Protective safety glasses recommended
Skin	Avoid skin contact. Wear PVC or rubber gloves to keep skin contact to a minimum. Refer to the manufacturer's recommendations regarding the suitability of any gloves used.
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State	Liquid
Color	Blue
Odor	No available information
Melting point / freezing point	No available information
Initial boiling point and boiling range	No available information
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive	Lower Explosive Limit: No available
limits	information
	Upper Explosive Limit:No available
	information
Flash Point	248°F 120°C, Test method: (Closed cup)
Auto-ignition temperature	No available information
Decomposition temperature	No available information

No available information



pH Viscosity (cSt) Salubilitation Water	No available information No available information
Solubility in Water Partition coefficient n-octanol/water (Log	No available information
Kow)	
Vapor pressure (Pa)	No available information
Relative Density	No available information
Vapor Density	No available information
Evaporation rate (Ether = 1)	No available information
VOC Content	0 lbs/gal
Oxidising properties	No available information

Other information

Explosive properties

No other relevant information.

Section 10. Stability and reactivity

Reactivity Hazardous Polymerization will not occur. Chemical stability Stable under normal circumstances. Possibility of hazardous reactions No available information Conditions to avoid Avoid high temperatures and contact with incompatible material Incompatible materials No available information Hazardous decomposition products No hazardous decomposition data available.

Section 11. Toxicological information

Acute toxicity



Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
2-Propenoic acid, 2-phenoxyethyl ester - (48145-04-6)				-	
	4,660.00, Rat -	2,540.00, Rat -	No data	No data	No data
	Category: 5	Category: 5	available.	available.	available.
2-Propenoic acid, (tetrahydro-2-furanyl)methyl ester - (2399-	No data	No data	No data	No data	No data
48-6)	available.	available.	available.	available.	available.
2h-azepin-2-one, 1-ethenylhexahydro (2235-00-9)	1,114.00, Rat - Category: 4	1,800.00, Rabbit - Category: 4	No data available.	No data available.	No data available.
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-(2,2- dimethyl-1,3-propanediyl)bis[.omega[(1-oxo-2-propenyl)oxy] (84170-74-1)	> 5,000.00, Rat - Category: NA	> 2,000.00, Rat - Category: NA	No data available.	No data available.	No data available.
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate - (84434-11-	> 5,000.00, Rat	> 2,000.00, Rat	No data	No data	No data
7)	- Category: NA	- Category: NA	available.	available.	available.
Blue pigment - (147-14-8)	6,401.00, Rat -	> 5,000.00, Rat	No data	No data	No data
	Category: NA	- Category: NA	available.	available.	available.
Pentaerythritol, ethoxylated, esters with acrylic acid - (51728-	No data	No data	No data	No data	No data
26-8)	available.	available.	available.	available.	available.
2-propenoic acid, 2,2-bis[[(1-oxo-2-propenyl)oxy]methyl]-1,3-	No data	No data	No data	No data	No data
propanediyl ester - (4986-89-4)	available.	available.	available.	available.	available.

Carcinogen Data

CAS No.		Ingredient	Source	Value
147-14-8	Blue pigment		OSHA	Regulated Carcinogen: No;
			NTP	Known: No; Suspected: No;
			IARC	Group 1: No; Group 2a: No; Group
				2b: No; Group 3: No;
			ACGIH	No Established Limit



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CAS No.	Ingredient	Source	Value
2235-00-	2h-azepin-2-one, 1-ethenylhexahydro-	OSHA	Regulated Carcinogen: No;
9		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group
			2b: No; Group 3: No;
		ACGIH	No Established Limit
2399-48-	2-Propenoic acid, (tetrahydro-2-furanyl)methyl ester	OSHA	Regulated Carcinogen: No;
6		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group
			2b: No; Group 3: No;
		ACGIH	No Established Limit
4986-89-	2-propenoic acid, 2,2-bis[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester	OSHA	Regulated Carcinogen: No;
4		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group
			2b: No; Group 3: No;
		ACGIH	No Established Limit
48145-	2-Propenoic acid, 2-phenoxyethyl ester	OSHA	Regulated Carcinogen: No;
04-6			Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group
			2b: No; Group 3: No;
		ACGIH	No Established Limit
51728-	Pentaerythritol, ethoxylated, esters with acrylic acid	OSHA	Regulated Carcinogen: No;
26-8		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group
			2b: No; Group 3: No;
		ACGIH	No Established Limit
84170-	Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-(2,2-dimethyl-1,3-	OSHA	Regulated Carcinogen: No;
74-1	propanediyl)bis[.omega[(1-oxo-2-propenyl)oxy] -	NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group
			2b: No; Group 3: No;
		ACGIH	No Established Limit
84434-	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	OSHA	Regulated Carcinogen: No;
11-7		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group
			2b: No; Group 3: No;
		ACGIH	No Established Limit

Classification	Category	Hazard Description	
Acute toxicity (oral)		Not Applicable	
Acute toxicity (dermal)		Not Applicable	
Acute toxicity (inhalation)		Not Applicable	
Skin corrosion/irritation	2	Causes skin irritation.	
Serious eye	2A	Causes serious eye irritation.	
damage/irritation			
Respiratory sensitization		Not Applicable	
Skin sensitization	1	May cause an allergic skin reaction.	
Germ cell mutagenicity		Not Applicable	
Carcinogenicity		Not Applicable	
Reproductive toxicity		Not Applicable	
STOT-single exposure		Not Applicable	
STOT-repeated exposure	1	Causes damage to organs through prolonged or	
		repeated exposure.	



Aspiration hazard		Not Applicable
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Possible routes of entry: No available information

Symptoms and effects, both acute and delayed:

No specific symptom data available. No chronic toxicity or long term toxicity information available. Treat symptomatically.

Eyes Causes serious eye irritation.

Skin May cause an allergic skin reaction. Causes skin irritation.

Section 12. Ecological information

Toxicity

Toxic to aquatic life with long lasting effects.

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
2-Propenoic acid, 2-phenoxyethyl ester - (48145-04-6)			
	10.00, Leuciscus idus	1.21, Daphnia magna	1.70, Desmodesmus subspicatus
2-Propenoic acid, (tetrahydro-2-furanyl)methyl ester - (2399-48-6)			
	No data available.	No data available.	No data available.
2h-azepin-2-one, 1-ethenylhexahydro (2235-00-9)			
	318.00, Danio rerio	101.00, Daphnia magna	101.00, Desmodesmus subspicatus
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-(2,2-dimethyl-1,3- propanediyl)bis[.omega[(1-oxo-2-propenyl)oxy] (84170-74-1)	2.70, Danio rerio	37.00, Daphnia magna	11.00, Pseudokirchneriella subcapitata
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate - (84434-11-7)			
	1.89, Danio rerio	2.26, Daphnia magna	1.01, Desmodesmus subspicatus
Blue pigment - (147-14-8)			



Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
	101.00, Danio	501.00, Daphnia	101.00, Desmodesmus
	rerio	magna	subspicatus
Pentaerythritol, ethoxylated, esters with acrylic acid - (51728-26-8)	No data available.	No data available.	No data available.
2-propenoic acid, 2,2-bis[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl	No data	No data	No data available.
ester - (4986-89-4)	available.	available.	

Persistence and degradability

There is no data available on the preparation itself.

- Bioaccumulative potential
- No available information
- Mobility in soil

No available information

Results of PBT and vPvB assessment

This product contains no PBT/vPvB/vPvM chemicals.

Other adverse effects

No available information

Section 13. Disposal considerations

Waste treatment methods

Observe all federal, provincial and local regulations when disposing of this substance.

Section 14. Transport information

Not regulated.

UN number

DOT (Domestic Surface Transportation) Not Regulated IMO / IMDG (Ocean Transportation) Not Regulated ICAO/IATA

Not Regulated

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UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
Transport hazard class(es)	Class:N/A Sub Class:Not Applicable	Class:N/A Sub Class:Not	Class:N/A Sub Class:Not
Packing group	N/A	Applicable N/A	Applicable N/A

Environmental hazards

Direct Color

Systems

IMDG Marine Pollutant: No **Special precautions for user**

No available information

Section 15. Regulatory information

Regulatory	The regulatory data in Section 15 is not intended to be all-inclusive, only
Overview	selected regulations are represented.

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)

Toxic Substance Control Act (TSCA)

CAS	Ingredient	Toxic Substance	Comments	Status
Number		Control Act (TSCA)		
0005495- 84-1	2-isopropyl-9H-thioxanthen-9-one	Yes		ACTIVE
0002399- 48-6	2-Propenoic acid, (tetrahydro-2-furanyl)methyl ester	Yes		ACTIVE
0004986- 89-4	2-propenoic acid, 2,2-bis[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester	Yes		ACTIVE
0048145- 04-6	2-Propenoic acid, 2-phenoxyethyl ester	Yes		ACTIVE
0002235- 00-9	2h-azepin-2-one, 1-ethenylhexahydro-	Yes		ACTIVE
0000147- 14-8	Blue pigment	Yes		ACTIVE
0084434- 11-7	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	No		
0051728- 26-8	Pentaerythritol, ethoxylated, esters with acrylic acid	Yes	PMN; XU	ACTIVE
0084170- 74-1	Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-(2,2-dimethyl-1,3- propanediyl)bis[.omega[(1-oxo-2-propenyl)oxy] -	Yes	PMN; XU	ACTIVE
0053879- 54-2	Poly[oxy(methyl-1,2-ethanediyl)], .alphahydroomega[(1-oxo-2- propenyl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1	Yes	XU	ACTIVE



EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting

EPCRA 313 Toxic Chemicals:

2-Propenoic acid, 2-phenoxyethyl ester

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 Label Warning:

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 16. Other information

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The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.



The full text of the phrases appearing in section 3 is:

H302 Harmful if swallowed.

- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

Disclaimer: The information presented herein is supplied as a guide to those who handle or use this product. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

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