

Issuing Date 05-May-2020

Revision date 08-Mar-2021

Safety Data Sheet Revision Number 2b

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier		
Description	FC-7900-WH White	
Other means of identification – Part Number Synonyms	FC-7900-WH No information available	
•2	-	
Recommended use of the chemica		
Recommended Use Uses advised against	ink. No information available	
Details of the supplier of the safet	-	
Company Name Direct Color Systems 99 Hammer Mill Rd. Rocky Hill, CT 06067- USA		
Emergency telephone number	Chemtrec 1-800-424-9300	
Emergency Telephone	International Chemtrec: +1 703-527-3887	
	2. Hazards Identification	
Classification		
OSHA Regulatory Status		
u	ous by the 2012 OSHA Hazard Communication Standard	(29 CFR 1910.1200)
Lioute toxioity Orol		iCotoon//

⊔cute toxicity - Oral	Cateoorv 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Cateoorv 1B
Carcinooenicitv	Cateoorv 2
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1

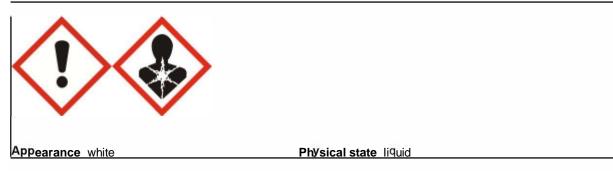
Label Elements

Danger

EMERGENCY OVERVIEW

Hazard statements Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction Suspected of causing cancer Suspected of damaging fertility or the unborn child Causes damage to organs through prolonged or repeated exposure Page 1/10

Odor Acrylic



Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Contaminated work clothing should not be allowed out of the workplace Do not breathe dusutume/gas/misUvapors/spray Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water Take off contaminated clothing and wash before reuse If skin irritation or rash occurs: Get medical advice/attention IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC) -

- Other Information_
- May be harmful in contact with skin
- Toxic to aquatic life with long lasting effects
- Very toxic to aquatic life Unknown acute toxicity
- 98.76 % of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%	Trade secret
2-Propenoic acid, 2-phenoxyethyl ester	48145-04-6	10 - 35	*
Monofunctional Acrylate	86273-46-3	1 - 25	*
Titanium dioxide	13463-67-7	1 - 20	*
2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-	5888-33-5	1 - 20	*
Lactam	Proprietary	1 - 15	*
Diphenvl-2,4,6-trimethylbenzoyl phosphine oxide	75980-60-8	1 - 10	
Oliaomer#2	PROPRIETARY	1 - 5	
Acrylated Resin / Oligomer	Proprietary	1 - 5	*
2-Propenoic acid, 2-[[(butylamino)carbonyl]oxy]ethyl ester	63225-53-6	1 - 5	
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	162881-26-7	1 - 5	^

Poly[oxy(methyl-1,2-ethanediyl)],	52408-84-1	0.1 - <1	*
.alpha.,.alpha.',.alpha."_1,2,3-propanetriyltris[.ome ga[(1-oxo-2-propenyl)oxy]-			

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

NOTE

Remaining components are either not hazardous or below threshold limits. This product contains substance(s) found on SNUR.

4. First aid measures

Description of first aid measures

General advice	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Immediate medical attention is required. If symptoms persist, call a physician.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately. If symptoms persist, call a physician.
Skin Contact	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Immediate medical attention is not required.
Inhalation	Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Immediate medical attention is required. If not breathing, give artificial respiration. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Call a physician.
Self-protection of the first aider	Use personal protective equipment as required. Avoid contact with eyes, skin and clothing.
Most important symptoms and effect	ts, both acute and delayed
Symptoms	Hives.
Indication of any immediate medica	l attention and special treatment needed
Notes to Physician	Eye Contact - Emergency Medical Treatment Procedures: Some photoinitiators cure in the near UV and visible light range. Keep overhead lighting OFF as a precaution. Flush eyes for an additional 15-30 minutes prior to examination under light. DO NOT use UV light with fluorescent stain to examine injured eye without copious irrigation of the eye. May cause sensitization of susceptible persons. Use of epinephrine may be indicated. Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Water spray Carbon dioxide (CO2) Dry chemical Cool containers with flooding quantities of water until well after fire is out Use

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not

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breathe fumes. May cause sensitization in susceptible persons.

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures			
Personal precautions, protective eq	uipment and emergency procedures		
Personal precautions	Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.		
Environmental precautions			
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.		
Methods and material for containme	ent and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.		
Methods for cleaning up	Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers.		
с. Х	7. Handling and Storage		
Precautions for safe handling			
Handling	Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/misUvapors/spray. Use with local exhaust ventilation.		
Conditions for safe storage, includi	ng any incompatibilities		
Storage	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.		
Incompatible materials	None known based on information supplied.		

8. Exposure Controls/Personal Protection

Control parameters_

Exoosure au1"del"mes

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide	TWA: 10 mg/m ³	TWA: 15 mg/m ³	IDLH: 5000 mg/m ³
13463-67-7			TWA: 2.4 mg/m ³
2 . 23	18 18		TWA: 0.3 mq/m ³

NIOSH IDLH: Immed1ate/y Dangerous to Life or Health

Appropriate engineering controls

Engineering Measures	Ventilation systems.
Individual protection measures, s	such as personal protective equipment
Eye/Face Protection	Tight sealing safety goggles. Face protection shield.
Skin and body protection	Special gloves must be worn when handling this material:Chemical resistant gloves. Butyl rubber (ex. North Butyl Black rubber gloves), or Ethylene-vinyl alcohol copolymer laminated rubber (ex. Dailove T-1) is applicable.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures	When using do not eat or drink. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with eyes, skin and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state Appearance Color	liquid white No information available	Odor Odor Threshold	Acrylic No information available
. <u>Property</u> _ pH	Values_	Remarks • Method_	
Melting point/ freezing point Boiling point/ boiling range	No information available		
Flash point	> 95 °C No information available	Seta Closed Cup	
Evaporation rate Flammability (solid, gas)	No information available		
Flammability Limit in Air Upper flammability limit:	No information available		
Lower flammability limit: Vapor pressure	No information available No information available		
Vapor density Specific gravity	No information available	Not applicable	
Water solubility	No information available	i tot applicable	
Solubility(ies) Partition coefficient	No information available No information available		
Autoignition temperature	>200		
Decomposition temperature Kinematic viscosity	No information available No information available		
Dynamic viscosity	No information available		
Explosive properties Oxidizing properties	No information available No information available		
Other Information			
Softening point	No information available		
Molecular weight	No information available		
voe content Liquid Density	No information available No information available		
Bulk density	No information available		

10. Stability and Reactivity

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.<u>Reactivity_</u> no data available

no data avaliable

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization may occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

Oxides of sulfur. Carbon oxides.

11. Toxicological Information

Information on likely routes of exposure

Product Information	The product has not been tested
Inhalation	Avoid breathing vapors or mists. May cause irritation.
Eye contact	Severely irritating to eyes. Avoid contact with eyes.
IF ON SKIN	Irritating to skin. Avoid contact with skin.
Ingestion	Do NOT taste or swallow. Harmful if swallowed.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-Propenoic acid, 2-phenoxyethyl ester 48145-04-6	= 4660 μL/kg(Rat)	= 2540 μL/kg (Rabbit)	-
rTitanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
2-Propenoic acid, 1,7,7-trimethylbicyclo[2 2 1]hept-2-yl ester, exo- 5888-33-5	= 4890 mg/kg (Rat)	≻5g/kg (Rabbit)	-
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)- 162881-26-7	> 2000 mg/kg (Rat) —	> 2000 mg/kg (Rat)	-

Information on toxicological effects

Symptoms

[Titanium dioxide

13463-67-7

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

-

Skin corrosion/irritation Serious eye damage/eye irritation irritation		n. s damage to eyes. Irritatir n Irritating to eyes. May c		prv tract t
Sensitization		allergic skin reaction.		
Mutagenic effects	No information	n available.		
Carcmogen1c1ty	The table bell	wmd.lcates whether ead	h agency has ^r isted anym	gled.len as a carcinogen.
Chemical name	ACGIH	IARC	NTP	

Group 28

-

OSHA X

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Reproductive toxicity	May impair fertility. Possible risk of impaired fertility. May cause harm to the unborn child. Possible risk of harm to the unborn child.
STOT - single exposure	No information available.
STOT - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Chronic toxicity	Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.
Target organ effects	blood, Eyes, Lungs, Nasal Cavities, Skin, kidney, liver.
Aspiration hazard	No information available.

Numerical measures of toxicit y - Product Information

Unknown acute toxicity	98.76 % of the mixture consists of ingredient(s) of unknown toxicity
The following values are calculate	ed based on chapter 3.1 of the GHS document
ATEmix (oral)	1205 ma/ka
ATEmix (dermal)	2186 mg/kg

12. Ecological Information

Ecotoxicity

-

Toxic to aquatic life with long lasting effects

Chemical name	Alaae/aauatic plants	Toxicitv to Fish	Crustacea
Monofunctional Acrylate 86273-46-3	-	6.8: 96 h Danio rerio mg/L LC50 semi-static	-
2-Propenoic acid, 7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- 5888-33-5	-	0.704: 96 h Danio rerio mg/L LC50 semi-static	-
Lactam	-	307: 96 h Danio rerio mg/L LC50 static	-
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)- 162881-26-7	-	90: 96 h Danio rerio µg/L LC50 semi-static	-
Poly[oxy(methyl-1,2-ethanediyl)], lpha.,.alpha,.alpha1,2,3-propanetriyltr is[.omega[(1-oxo-2-propenyl)oxy]- 52408-84-1	-	5.74: 96 h Danio rerio mg/L LC50 static	-

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Other adverse effects	No information available
is g	13. Disposal Considerations
Waste treatment methods	
Waste treatment methods	Disposal should be in accordance with applicable regional, national and local laws and regulations. Should not be released into the environment.
Contaminated packaging	Do not re-use empty containers.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. Transport Information

ADN_	Not regulated
ADR_	Not regulated
. <u>RID</u> _	Not regulated
-IMDG/IMO-	Not regulated
<u>IATA</u> _	Not regulated
ICAO_	Not regulated
<u>MEX</u> _	Not regulated
TDG_	Not regulated
DOT_	Not regulated

15. Regulatory Information

International Inventories_

Chemical name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
2-Propenoic acid, 2-phenoxyethyl ester 48145-04-6	Х	X	Х	Х	X	Х	Х	X
Monofunctional □ crylate 86273-46-3	Х	X	Х	Х	X	-	-	X
□itanium dioxide 13463-67-7	Х	Х	Х	Х	Х	Х	Х	X
2-Propenoic acid, 1,7,7-trimethylbicyclo (2.2.1]hept-2-yl ester, exo- 5888-33-5	Х	X	Х	Х	X	Х	X	Х
Lactam	Х	Х	Х	Х	Х	Х	Х	Х
Diphenyl-2,4,6-trimet hylbenzoyl phosphine oxide 75980-60-8	Х	X	Х	Х	X	Х	X	X
Oligomer#2 PROPRIETARY	Х	Х	Х	Х	Х	Х	Х	X
□crylated Resin / Oligomer	Х	X	Х	Х	Х	Х	Х	Х
2-Propenoic acid, 2-(((butylamino)carbo nyl]oxy]ethyl ester 63225-53-6	Х	X	Х	-	X	-	x	X
Phosphine oxide, phenylbis(2,4,6-trime □ hylbenzoyl)- 162881-26-7	Х	X	Х	Х	X	-	X	X
Poly(oxy(methyl-1,2- ethanediyl)], .alpha.,.alpha.',.alpha ."-1,2,3-propanetriylt ris(.omega1(1-oxo-2- propenyl)oxy]- 52408-84-1	X	X	X	X	X	Х	X	X

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Legend Legend:

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

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations_

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 -Threshold Values%
2-Propenoic acid, 2- thenox yeth y ester - 48145-04-6	1.0
SARA 311/312 Hazard Categories -	
Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	Yes

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CAS No	Weight-%	HAPS data	voe Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
2-Propenoic acid, 2-phenoxyethyl ester	48145-04-6	10 - 35	This CAS number is listed as a glycol ether in SARA 313, and therefore is regarded as a HAP, (since it meets the general definition of qlycol ethers).			

<u>CERCLA</u>

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:				
The predact contains the following the position of energies.	р			
Chemical name	California Pro . 65			

Titanium dioxide - 13463-67-7 Carcino en

U.S. State Right-to-Know Regulations

Chemical name	New Jersev	Massachusetts	Pennsvlvania		
2-Propenoic acid, 2-phenoxyethyl ester 48145-04-6	Х	-	Х		
Titanium dioxide – 13463-67-7	Х	Х	Х		
U.S. EPA Label Information					

EPA Pesticide registration number Not applicable

16. Other Information

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<u>NFPA</u>	Health hazard 2	flammability ¹	Instability 2	Physical and chemical
HMIS	Health hazard 2	flammability 1	Physical hazards 2	properties - Personal precautions X

Issuing Date Revision date Revision note No information available <u>Disclaimer</u>

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

05-May-2020

08-Mar-2021

End of Safety Data Sheet