Photocentric Rigid UVFR - Black Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 12/14/2020 Version: 2.0

SECTION 1: Identifica	ition		
1.1. Identification			
Product form		: Mixture	
Trade name		: Rigid UVFR - Black	
Other means of identification	n	: DLPFRBK01	
1.2. Recommended us	se and restrictions on	i use	
Use of the substance/mixtu	re	: For use in Photocentr	ic UV LCD Printers
1.3. Supplier			
Supplier			Distributor
Photocentric Ltd			Photocentric Inc
Titan House 20 Titan Drive			855 N. 107th Ave Suite A110
Peterborough, PE1 5XN - L	Jnited Kingdom		Avondale, Arizona 85323 - United States
T +44 (0) 1733 349937 (UK	(Office hours only)		T 006235813220 x1009 (USA Office hours only)
info@photocentric.co.uk - h	<u>ittps://photocentricgrou</u>	<u>p.com/</u>	customerservice@photocentricusa.com - https://photocentricgroup.com/
1.4. Emergency teleph	none number		
Emergency number		: +44 (0) 1733 349937 006235813220 x1009	(UK Office hours only) (USA Office hours only)
			es for US & CANADA: For Hazardous Materials [or Dangerous Goods] ire, Exposure, or Accident Call CHEMTREC 1-800-424-9300 / +1 703-
		527-3887 CCN 99285	
SECTION 2: Hazard(s) identification		
2.1. Classification of t	the substance or mixt	ure	
GHS US classification			
Serious eye damage/eye	H318	Causes serious	s eye damage
irritation Category 1 Skin sensitization,	H317	May cause an	allergic skin reaction
Category 1			
Hazardous to the aquatic environment – Acute	H401	Toxic to aquation	clife
Hazard Category 2			
Hazardous to the aquatic	H411	Toxic to aquation	c life with long lasting effects
environment – Chronic Hazard Category 2			
Full text of H statements : se	e section 16		
2.2. GHS Label eleme	nts, including precau	tionary statements	
GHS US labeling			
Hazard pictograms (GHS U	IS)		\land \land
		F	¥
			\vee \vee
Signal word (GHS US)		: Danger	
Hazard statements (GHS U	IS)	: H317 - May cause an	
		H318 - Causes seriou H401 - Toxic to aquat	
		•	ic life with long lasting effects
Precautionary statements (GHS US)	: P261 - Avoid breathin	g fume, mist, spray, vapors.
·			work clothing must not be allowed out of the workplace.
		P273 - Avoid release P280 - Wear protectiv	to the environment. e clothing, eye protection, face protection.
		P302+P352 - If on ski	n: Wash with plenty of Gently wash with plenty of soap and water
			F IN EYES: Rinse cautiously with water for several minutes. Remove ent and easy to do. Continue rinsing.
		contact tenses, it pres	ี่ ธาน สาม ธิสรุ เป นบ. บบานแทนยาการกาย.

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	P321 - Specific treatmeni P333+P313 - If skin irrita P363 - Wash contaminat P391 - Collect spillage. P501 - Dispose of conter	a poison center or doctor. t (see supplemental first aid instruction on this label). tion or rash occurs: Get medical advice/attention. ed clothing before reuse. hts/container to hazardous or special waste collection point, in gional, national and/or international regulation.
		gona, natona ana/or international regulation.
2.3. Other hazards which do not resu	ult in classification	
Other hazards which do not result in classification	: None under normal cond	itions.
2.4. Unknown acute toxicity (GHS US	5)	
Not applicable		
SECTION 3: Composition/Informa	ation on ingredients	
3.1. Substances		
Not applicable		
3.2. Mixtures		
Name	Conc.	GHS US classification
Name	(% w/w)	GHS US classification
Proprietary (Triacrylate)	≥ 25 - < 70	Eye Dam. 1, H318 Skin Sens. 1, H317
		Aquatic Chronic 2, H411

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a poison center/doctor/physician if you feel unwell. Never give anything by mouth to an unconscious person.
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	 Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell. Rinse mouth out with water. If swallowed, seek medical advice immediately and show this container or label. Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effect	ts (acute and delayed)
Potential Adverse human health effects and symptoms	: Irritation: severely irritant to eyes. Harmful in contact with skin. Harmful if swallowed.
Symptoms/effects after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing). May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Risk of serious damage to eyes. Serious damage to eyes.
Symptoms/effects after ingestion	: Harmful if swallowed. May cause irritation to the digestive tract.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically. In all cases of doubt, or when symptoms persist, seek medical attention. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

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SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishi	ng media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Specific hazards arising from the cho	emical
Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Special protective equipment and protecti	ecautions for fire-fighters
Precautionary measures fire	: Keep cool. Protect from sunlight.
Firefighting instructions	 Do not enter fire area without proper protective equipment, including respiratory protection. Fight fire from safe distance and protected location. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: High temperature decomposition products are harmful by inhalation.
SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective equ	ipment and emergency procedures
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene. For further information refer to section 8: "Exposure controls/personal protection". Avoid breathing dust/fume/gas/mist/vapours/spray.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Protective gloves. Safety glasses. Self-contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Evacuate unnecessary personnel. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Ventilate area. Stop leak if safe to do so.
6.2. Environmental precautions	
Avoid release to the environment. Prevent liquid f asting effects.	rom entering sewers, watercourses, underground or low areas. Very toxic to aquatic life with long

6.3.	Methods and material for contain	nment and cleaning up
For co	ntainment	For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Collect spillage. Stop leak, if possible without risk.
Metho	ds for cleaning up	 Take up liquid spill into absorbent material. This material and its container must be disposed of in a safe way, and as per local legislation.
Other	information	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13. SECTION 7: Handling and storage

: Not expected to present a significant hazard under anticipated conditions of normal use	e.
Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid brown dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Ensure that the suitable ventilation system. Do not handle in a confined space. Avoid contact with skin, and clothing. Protective clothing (with elasticated cuffs and closed neck). Do not breath vapors. Obtain special instructions before use. Do not handle until all safety precaution been read and understood.	nere is a , eyes ne
: < 50 °C	
EN (English US)	3/8
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Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage	e, including any incompatibilities
Technical measures	: Ensure adequate ventilation, especially in confined areas. Store in a well-ventilated place. Keep container tightly closed. Store in tightly closed, leak-proof containers.
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight.
Incompatible products	: Strong acids. Strong bases.
Incompatible materials	: Direct sunlight.
Storage temperature	: < 50 °C
Storage area	: Store in a well-ventilated place. Store away from heat.
Special rules on packaging	: Store in a closed container.
Packaging materials	: Do not store in corrodable metal. Store always product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Rigid UVFR - Black	
No additional information available	
Proprietary (Aliphatic urethane methacrylate) (72869-86-4)	
No additional information available	
Proprietary (Triacrylate) (40220-08-4)	
No additional information available	

8.2. Appropriate engineering co	ontrols
Appropriate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment. Gloves. Safety glasses.

Materials for protective clothing:

Wear suitable protective clothing and gloves. Nitrile rubber. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

Hand protection:

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Nitrile-rubber protective gloves

Eye protection:

Safety glasses. Safety glasses (EN 166). Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing. Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact. Wear suitable protective clothing. Protective clothing (EN 14605 or EN 13034)

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. In case of inadequate ventilation wear respiratory protection. Wear suitable respiratory protection (conforming to EN140 with Type A filter or better) and gloves (type EN374) if regular skin contact likely.

Personal protective equipment symbol(s):

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Thermal hazard protection:

Typical measures to maintain workplace concentrations of airborne VOCs and particulates below respective OELs: e.g. thermal wet scrubber – gas removal and/or air filtration – particle removal and/or thermal oxidation and/or vapour recovery – adsorption.

.1. Information on basic physical and ch	emical properties
Physical state	: Liquid
Appearance	: Liquid.
Color	: Black
Odor	: characteristic
Odor threshold	: No data available
DH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
No data availableViscosity, kinematic	: No data available
Viscosity, dynamic	: 760 (500 – 900) mPa⋅s @25°C
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information No additional information available

SECTION 10: Stability and reactivity

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10.1. Reactivity
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The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3.	Possibility	/ of hazardous	reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity (oral) : Not classified Acute toxicity (inhalation) : Not classified Proprietary (Aliphatic urethane methacrylate) (72869-86-4) LD50 oral rat > 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) LD50 dermal rat > 2000 mg/kg bw/day Proprietary (Triacrylate) (40220-08-4) LD50 oral rat LD50 oral rat No mortality/Rat: 2.000 mg/kg (Method: OECD Test Guideline 423) Skin corrosion/irritation : Not classified Serious eye damage/irritation : Causes serious eye damage. Respiratory or skin sensitization : May cause an allergic skin reaction. Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified Proprietary (Triacrylate) (40220-08-4) Not classified NOAEL (animal/male, F0/P) : S0 mg/kg body weight NOAEL (Parental toxicity) (Method: OECD Test Guideline 422, Rat, By oral route) NOAEL (animal/male, F0/P) : S00 mg/kg body weight NOAEL (fertility) (Method: OECD Test Guideline 422, Rat, By oral route) NOA
Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified Proprietary (Aliphatic urethane methacrylate) (72869-86-4)
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422, Rat, By oral route)
STOT-single exposure · Not classified
STOT-repeated exposure : Not classified
Proprietary (Triacrylate) (40220-08-4)
LOAEL (oral,rat,90 days) 100 mg/kg bodyweight/day Local Irritation (Method: OECD Test Guideline 422, Rat, 28 d)
Aspiration hazard : Not classified
Viscosity, kinematic : No data available
Potential Adverse human health effects and : Irritation: severely irritant to eyes. Harmful in contact with skin. Harmful if swallowed. symptoms
Symptoms/effects after inhalation : Inhalation may cause irritation (cough, short breathing, difficulty in breathing). May cause respiratory irritation.
Symptoms/effects after skin contact : May cause an allergic skin reaction.
Symptoms/effects after eye contact : Risk of serious damage to eyes. Serious damage to eyes.
Symptoms/effects after ingestion : Harmful if swallowed. May cause irritation to the digestive tract.

SECTION 12: Ecological information

12.1. Toxicity Ecology - general

: Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Proprietary (Aliphatic urethane methacrylate) (72869-86-4)	
LC50 - Fish [1]	≥ 10.1 mg/l Zebra Fish (Brachydanio rerio)
EC50 - Crustacea [1]	> 1200 μg/l Test organisms (species): Daphnia magna
NOEC chronic algae	0.21 mg/l Green Algae (Desmodesmus subspicatus)
Proprietary (Triacrylate) (40220-08-4)	
ErC50 algae	25.7 mg/l 72 h (Pseudokirchneriella subcapitata (green algae)) :(Method: OECD Test Guideline 201)

12.2. Persistence and degradability

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Proprietary (Aliphatic urethane methacrylate) (72869-86-4)	
Not established.	
22 % CO2 Evolution: Modified Sturm (OECD 301B)	
14.5 – 19.7 % after 28 d (Method: OECD Test Guideline 301 F)	
12.3. Bioaccumulative potential	
(72869-86-4)	
3.39	
No bioaccumulation data available.	
12.4. Mobility in soil	
2.79 (Method: calculated) Absorption / desorption:	

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations		
13.1. Disposal methods		
Regional waste regulation	: Disposal must be done according to official regulations.	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
Sewage disposal recommendations	: Disposal must be done according to official regulations.	
Product/Packaging disposal recommendations	 Avoid release to the environment. Comply with applicable regulations for solid waste disposal. Dispose in a safe manner in accordance with local/national regulations. Disposal must be done according to official regulations. 	
Additional information	: Clean up even minor leaks or spills if possible without unnecessary risk. Do not re-use empty containers.	
Ecological waste information	: Avoid release to the environment.	

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Transport document description (IMDG)

UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Packing group (IMDG) Limited quantities (IMDG) Marine pollutant : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dipropylene Glycol Diacrylate ; Tris(2-hydroxyethyl) Isocyanurate Triacrylate), 9, III, MARINE POLLUTANT

- : 3082
- : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
- : 9 Miscellaneous dangerous substances and articles
- : III substances presenting low danger
- :5L
- : Yes



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Air transport

Transport document description (IATA)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Dipropylene Glycol Diacrylate ; Tris(2-hydroxyethyl) Isocyanurate Triacrylate), 9, III
UN-No. (IATA)	: 3082
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s.
Class (IATA)	: 9 - Miscellaneous Dangerous Substances and Articles
Packing group (IATA)	: III - Low danger

SECTION 15: Regulatory information

15.1. US Federal regulations

Rigid UVFR - Black

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

[Proprietary (Aliphatic urethane methacrylate)	CAS-No. 72869-86-4	≥ 5 – < 10%
	Proprietary (Triacrylate)	CAS-No. 40220-08-4	≥ 25 – < 70%

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Proprietary (Triacrylate) (40220-08-4)

EPA TSCA Regulatory Flag	PMN - PMN - indicates a commenced PMN substance.
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15.2. International regulations

CANADA

Proprietary (Aliphatic urethane methacrylate) (72869-86-4	4)
Listed on the Canadian NDSL (Non-Domestic Substances List	st)
Proprietary (Triacrylate) (40220-08-4)	
Listed on the Canadian NDSL (Non-Domestic Substances List	st)
EU-Regulations	

No additional information available

National regulations

U	
Proprietary ((Aliphatic urethane methacrylate) (72869-86-4)
Listed on the	United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Proprietary ((Triacrylate) (40220-08-4)
Listed on the	United States TSCA (Toxic Substances Control Act) inventory - Status: Active
15.3. US State r	regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of hazard classes and H-statements:

H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

SDS US (GHS HazCom 2012) No CAS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.