



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

SECTION 1: Identification

Identification

Product form : Mixture

Trade name : Rigid DLFR - Black Other means of identification : MAGFRBK05

Recommended use and restrictions on use 1.2.

1.3. **Supplier**

Supplier Photocentric Ltd Titan House 20 Titan Drive Peterborough, PE1 5XN - United Kingdom T +44 (0) 1733 349937 (UK Office hours only)

info@photocentric.co.uk - https://photocentricgroup.com/

Distributor

Photocentric Inc. 855 N. 107th Ave Suite A110

Avondale, Arizona 85323 - United States T 006235813220 x1009 (USA Office hours only)

customerservice@photocentricusa.com - https://photocentricgroup.com/

Emergency telephone number

Emergency number : +44 (0) 1733 349937 (UK Office hours only) 006235813220 x1009 (USA Office hours only)

> Transport Emergencies for US & CANADA: For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC 1-800-424-9300 / +1 703-

527-3887 CCN 992854

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation Category 1

H318

Causes serious eye damage

Skin sensitization, H317

Category 1

Hazardous to the aquatic

Toxic to aquatic life

H401

environment - Acute Hazard Category 2

Hazardous to the aquatic

environment - Chronic

H411

Toxic to aquatic life with long lasting effects

May cause an allergic skin reaction

Hazard Category 2

Full text of H statements : see section 16

GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)







Signal word (GHS US) : Danger

Hazard statements (GHS US) : H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H401 - Toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. Precautionary statements (GHS US)

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

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - If on skin: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

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P310 - Immediately call a poison center or doctor.

P321 - Specific treatment (see supplemental first aid instruction on this label). P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P391 - Collect spillage.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Conc. (% w/w)	GHS US classification
Proprietary (Triacrylate)	≥ 25 – < 70	Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Proprietary (Aliphatic urethane methacrylate)	≥ 5 - < 10	Aquatic Acute 1, H400 Aquatic Chronic 3, H412

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 : If you feel unwell, seek medical advice.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : 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 : 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 : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is

expected to be an inhalation hazard.

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : None under normal conditions.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

fire

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing 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 chemical

Fire hazard : No fire hazard.

Explosion hazard : No direct explosion hazard.

Hazardous decomposition products in case of : Toxic fumes may be released.

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5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire from

: Fight fire from safe distance and protected location. Do not enter fire area without proper

protective equipment, including respiratory protection.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Stop leak if safe to do so. Notify

: 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 : Ventilate spillage area. Avoid contact with skin and eyes. 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. For further information

refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into

sewers or streams. Stop leak, if possible without risk.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling

: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Ensure that there is a suitable ventilation system. Do not handle in a confined space. Avoid contact with skin, eyes

suitable ventilation system. Do not handle in a confined space. Avoid contact with skin, eyes and clothing. Protective clothing (with elasticated cuffs and closed neck). Do not breathe vapors. Obtain special instructions before use. Do not handle until all safety precautions have

been read and understood.

Handling temperature : ≤ 30 °C

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, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Keep cool. Protect from sunlight.

Storage temperature : 10 - 50 °C

Packaging materials : Store always product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Rigid DLFR - Black

No additional information available

Proprietary (Aliphatic urethane methacrylate) (72869-86-4)

No additional information available

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Proprietary (Triacrylate) (40220-08-4)

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : 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.

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:

Protective gloves. 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. 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):



Physical state







: Liquid

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance : Liquid. Color : Black Odor : characteristic Odor threshold No data available рΗ : 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 : No data available Relative vapor density at 20°C

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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

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : 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	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)	
NOAEL (animal/male, F0/P)	50 mg/kg body weight NOAEL (Parental toxicity) (Method: OECD Test Guideline 422, Rat, By oral route)
NOAEL (animal/female, F0/P)	> 200 mg/kg body weight NOAEL (fertility) (Method: OECD Test Guideline 422, Rat, By oral route)
NOAEL (animal/male, F1)	> 200 mg/kg body weight NOAEL (developmental toxicity) (Method: OECD Test Guideline 422, Rat, By oral route)

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: Not classified STOT-single exposure

STOT-repeated exposure : Not classified

Proprietary	/ (Triacryla	te) (40220-08-4)
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LOAEL (oral,rat,90 days) 100 mg/kg bodyweight/day Local Irritation (Method: OECD Test Guideline 422, Rat, 28 d)

: Not classified Aspiration hazard : No data available Viscosity, kinematic

Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is

expected to be an inhalation hazard.

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes. Symptoms/effects after ingestion : None under normal conditions.

SECTION 12: Ecological information

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)	

Persistence and degradability

Proprietary (Aliphatic urethane methacrylate) (72869-86-4)		
Persistence and degradability	Not established.	
Biodegradation	22 % CO2 Evolution: Modified Sturm (OECD 301B)	
Proprietary (Triacrylate) (40220-08-4)		
Biodegradation	14.5 – 19.7 % after 28 d (Method: OECD Test Guideline 301 F)	

12.3. **Bioaccumulative potential**

Proprietary (Aliphatic urethane methacrylate) (72869-86-4)	
Partition coefficient n-octanol/water (Log Pow)	3.39
Bioaccumulative potential	No bioaccumulation data available.

12.4. **Mobility in soil**

Proprietary (Triacrylate) (40220-08-4)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.79 (Method: calculated) Absorption / desorption:

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Disposal methods

: Disposal must be done according to official regulations. Regional waste regulation

: Dispose of contents/container in accordance with licensed collector's sorting instructions. Waste treatment methods

Sewage disposal recommendations Disposal must be done according to official regulations. Product/Packaging disposal recommendations : Disposal must be done according to official regulations.

Additional information : Do not re-use empty containers.

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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 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dipropylene

Glycol Diacrylate; Tris(2-hydroxyethyl) Isocyanurate Triacrylate), 9, III, MARINE POLLUTANT

UN-No. (IMDG) : 3082

Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Class (IMDG) : 9 - Miscellaneous dangerous substances and articles

Packing group (IMDG) : III - substances presenting low danger

Limited quantities (IMDG) : 5 L

Marine pollutant : Yes



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 DLFR - 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.

15.2. International regulations

CANADA

Proprietary (Aliphatic urethane methacrylate) (72869-86-4)

Listed on the Canadian NDSL (Non-Domestic Substances List)

Proprietary (Triacrylate) (40220-08-4)

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Proprietary (Aliphatic urethane methacrylate) (72869-86-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

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Proprietary (Triacrylate) (40220-08-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

15.3. US State 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

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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.

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