

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 24/07/2025 Version: 1.0

#### **SECTION 1 Identification**

#### 1.1. Product identifier

Product form : Mixture

Trade name Cast DL60 - Black

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : For use in Photocentric Daylight Printers

#### 1.4. Supplier's details

Distributor Manufacturer Photocentric Ltd Photocentric Inc 855 N. 107th Ave Titan House 20 Titan Drive Suite A110

Peterborough, PE1 5XN, Cambridgeshire Avondale, Arizona, AZ, 85323

**United States** United Kingdom

T +44 (0) 1733 349937 (UK Office hours only) T 006235813220 x1009 (USA Office hours only)

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

#### 1.5. Emergency phone number

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

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 Identification**

#### 2.1. Classification of the substance or mixture

### **GHS US classification**

Flammable liquids, Category 4 Combustible liquid.

Hazardous to the aquatic environment — Chronic Hazard, Category 1 Very toxic to aquatic life with long lasting effects. H410

Full text of H statements : see section 16

#### 2.2. Label elements

#### **GHS US labeling**

Hazard pictograms (GHS US)



Signal word (GHS US) Warning

Hazard statements (GHS US) H227 - Combustible liquid

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P273 - Avoid release to the environment.

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P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.

P370+P378 - In case of fire: Use appropriate media to extinguish.

P391 - Collect spillage.

P403 - Store in a well-ventilated place.

P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

#### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

#### 2.4. Hazards not otherwise classified

No additional information available

### 2.5. Unknown acute toxicity

No additional information available

### **SECTION 3 Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Conc. (% w/w)	GHS US classification
Properitary (Acrylate)	≥ 15	Aquatic Chronic 1, H410
Proprietary (Aliphatic urethane methacrylate)	≥ 15 – < 20	Aquatic Chronic 2, H411
Proprietary (Mono acrylate)	≥ 10 – < 15	Aquatic Chronic 1, H410
Proprietary (Mono acrylate)	≥ 5 – < 10	Flam. Liq. 4, H227 Aquatic Chronic 1, H410

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

#### **SECTION 4 First aid measures**

#### 4.1. Description of necessary first-aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor/physician if

you feel unwell.

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.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. Call a poison center/doctor/physician if you feel unwell.

# 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : None under normal conditions. Symptoms/effects after skin contact : None under normal conditions. Symptoms/effects after eye contact : None under normal conditions.

Symptoms/effects after ingestion : Harmful if swallowed.

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#### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

### **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 fire : Toxic fumes may be released.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : 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 authorities if product enters sewers or public waters. Absorb

spillage to prevent material-damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area.

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.

Environmental precautions : Avoid release to the environment.

#### 6.2. Methods and materials 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. Notify authorities if product enters sewers or public

waters.

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

For further information refer to section 13

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#### **SECTION 7 Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle

until all safety precautions have been read and understood. Wear personal protective equipment. Ensure that there is a 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.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

Handling temperature : ≤ 30 °C

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

#### 7.2. Conditions for safe storage, including incompatibilities

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

Storage conditions : Store locked up. 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

No additional information available

#### 8.2. Appropiate 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, such as 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 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). Use footwear with anti-static or anti-spark features

#### 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.

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#### Personal protective equipment symbol(s):









#### 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.

No data available

No data available

No data available

# **SECTION 9 Physical and chemical properties**

### 9.1. Basic physical and chemical properties

: Liquid Physical state : Black Color Odor characteristic Odor threshold No data available Hq : No data available Melting point Not applicable No data available Freezing point Boiling point No data available Flash point > 65 °C Flammability (solid, gas) : Not applicable. : No data available Vapor pressure 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 No data available Decomposition temperature

# **DI-HEMA TRIMETHYLHEXYL DICARBAMATE**

Particle characteristics No data available

#### Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

Particle characteristics No data available

### 3,3,5-trimethylcyclohexyl acrylate

Viscosity, kinematic

Particle characteristics

**Explosion limits** 

Particle characteristics No data available

# 4-(1,1-dimethylethyl)cyclohexyl acrylate

Particle characteristics No data available

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

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#### **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. Likely routes of exposure

Acute toxicity (oral) : No data available No data available Acute toxicity (dermal) : No data available Acute toxicity (inhalation)

Proprietary (Aliphatic urethane methacrylate)	
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
LC50 Inhalation - Rat (Dust/Mist)	> 5 mg/l/4h
Properitary (Acrylate)	
LD50 dermal rabbit	> 3000 mg/kg body weight Animal: rabbit, Animal sex: male, Guideline: other:
Proprietary (Mono acrylate)	
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Skin corrosion/irritation	: No data available

: No data available Serious eye damage/irritation

No data available Respiratory or skin sensitization Germ cell mutagenicity : No data available

: No data available Carcinogenicity

: No data available Reproductive toxicity STOT-single exposure No data available STOT-repeated exposure : No data available

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Dronviotom, (Mono comulato)	
Proprietary (Mono acrylate)	
NOAEL (oral,rat,90 days)	1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Proprietary (Mono acrylate)	
NOAEL (oral,rat,90 days)	150 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:
Aspiration hazard	: No data available
Cast DL60 - Black	
Viscosity, kinematic	No data available
Proprietary (Aliphatic urethane methacryl	ate)
Viscosity, kinematic	No data available
Properitary (Acrylate)	
Viscosity, kinematic	No data available
Proprietary (Mono acrylate)	
Viscosity, kinematic	No data available
Proprietary (Mono acrylate)	
Viscosity, kinematic	No data available
Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: None under normal conditions.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: Harmful if swallowed.

# **SECTION 12 Ecological information**

### 12.1. Ecotoxicity

: Toxic to aquatic life with long lasting effects. Ecology - general

Hazardous to the aquatic environment, short-term : No data available

Hazardous to the aquatic environment, long-term

: Very toxic to aquatic life with long lasting effects.

(chronic)

Proprietary (Aliphatic urethane methacrylate)	
LC50 - Fish [1]	≥ 10.1 mg/l Zebra Fish (Brachydanio rerio)
EC50 - Crustacea [1]	> 1200 μg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 0.68 mg/l
NOEC chronic algae	0.21 mg/l Green Algae (Desmodesmus subspicatus)
Properitary (Acrylate)	
LC50 - Fish [1]	0.704 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 72h - Algae [1]	1.98 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.596 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
LOEC (chronic)	0.277 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

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Properitary (Acrylate)	
NOEC (chronic)	0.092 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Proprietary (Mono acrylate)	
LC50 - Fish [1]	1.9 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	14.43 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 0.59 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
Proprietary (Mono acrylate)	
LC50 - Fish [1]	> 1.27 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	1.03 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0.539 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

### 12.2. Persistence and degradability

Cast DL60 - Black	
Persistence and degradability	Not rapidly degradable
Proprietary (Aliphatic urethane methacrylate)	
Persistence and degradability	Not established.
Biodegradation	22 % CO2 Evolution: Modified Sturm (OECD 301B)
Properitary (Acrylate)	
Persistence and degradability	Not rapidly degradable
Proprietary (Mono acrylate)	
Persistence and degradability	Not rapidly degradable
Proprietary (Mono acrylate)	
Persistence and degradability	Not rapidly degradable

# 12.3. Bioaccumulative potential

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

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

:

Fluorinated greenhouse gases : No

# **SECTION 13 Disposal considerations**

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.

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Sewage disposal recommendations : Dis

Product/Packaging disposal recommendations

Additional information

Disposal must be done according to official regulations.Disposal must be done according to official regulations.

: Do not re-use empty containers.

# **SECTION 14 Transport information**

In accordance with DOT / TDG / IMDG / IATA

#### 14.1. UN number

 UN-No.(DOT)
 : Not regulated

 UN-No. (TDG)
 : Not regulated

 UN-No. (IMDG)
 : 3082

 UN-No. (IATA)
 : 3082

#### 14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Not regulated Proper Shipping Name (TDG) : Not regulated

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

Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s.

#### 14.3. Transport hazard class(es)

#### DOT

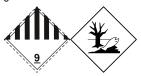
Transport hazard class(es) (DOT) : Not regulated

#### **TDG**

Transport hazard class(es) (TDG) : Not regulated

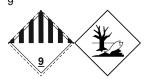
#### **IMDG**

Transport hazard class(es) (IMDG) : 9
Hazard labels (IMDG) : 9



#### **IATA**

Transport hazard class(es) (IATA) : 9
Hazard labels (IATA) : 9



#### 14.4. Packing group

Packing group (DOT) : Not regulated Packing group (TDG) : Not regulated

Packing group (IMDG) : III
Packing group (IATA) : III

#### 14.5. Environmental hazards

Dangerous for the environment : Yes

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Marine pollutant : Yes



Other information : No supplementary information available.

#### 14.6. Transport in bulk

Not applicable

#### 14.7. Special precautions for user

#### DOT

Not regulated

#### **TDG**

Not regulated

#### **IMDG**

Special provision (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : LP01, P001
Packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP29

EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE

EmS-No. (Spillage) : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS

Stowage category (IMDG) : A

**IATA** 

Special provision (IATA) : A97, A158, A197, A215

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y964 PCA limited quantity max net quantity (IATA) : 30kgG : 964 PCA packing instructions (IATA) PCA max net quantity (IATA) : 450L CAO packing instructions (IATA) : 964 CAO max net quantity (IATA) : 450L ERG code (IATA) : 9L

#### **SECTION 15 Regulatory information**

#### 15.1. Federal regulations

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

Proprietary (Mono acrylate)	≥ 10 – < 15%
Proprietary (Mono acrylate)	≥ 5 – < 10%

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.

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#### 15.2. International regulations

#### CANADA

#### **Proprietary (Aliphatic urethane methacrylate)**

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

#### **Properitary (Acrylate)**

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

No additional information available

#### 15.3. 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	
H227	Combustible liquid
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic 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.