

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
 Trade name : Magna Duramax - Black  
 Other means of identification : MAGDMBK05

#### 1.2. Recommended use and restrictions on use

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

#### 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](mailto: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](mailto:customerservice@photocentricusa.com) - <https://photocentricgroup.com/>

#### 1.4. 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

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

##### GHS US classification

Acute toxicity (oral) Category 4	H302	Harmful if swallowed
Hazardous to the aquatic environment – Chronic Hazard Category 2	H411	Toxic to aquatic life with long lasting effects

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Warning

Hazard statements (GHS US) :

H302 - Harmful if swallowed  
 H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS US) :

P264 - Wash hands thoroughly after handling.  
 P270 - Do not eat, drink or smoke when using this product.  
 P273 - Avoid release to the environment.  
 P301+P312 - If swallowed: Call a doctor if you feel unwell.  
 P330 - Rinse mouth.  
 P391 - Collect spillage.  
 P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

#### 2.3. Other hazards which do not result in classification

No additional information available

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### 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 (Monomer)	≥ 25 – < 50	Acute Tox. 4 (Oral), H302
Proprietary (Aliphatic Urethane Oligomer)	≥ 3 – < 5	Aquatic Chronic 2, H411
Proprietary (Photoinitiator)	≥ 3 – < 5	Aquatic Chronic 1, H410

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.
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	: Get medical advice/attention if you feel unwell. If swallowed, seek medical advice immediately and show this container or label. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth out with water. Rinse mouth. Call a poison center/doctor/physician if you feel unwell.

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

Symptoms/effects	: May be harmful in contact with skin. May be harmful if swallowed and enters airways.
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	: None under normal conditions.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. May be harmful if swallowed.

### 4.3. Immediate medical attention and special treatment, if necessary

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	: In case of fire, corrosive gases come free.
Explosion hazard	: No direct explosion hazard.
Reactivity in case of fire	: Corrosive vapors.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

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

Precautionary measures fire	: Keep cool. Protect from sunlight. Stop leak if safe to do so.
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Firefighting instructions	: Do not enter fire area without proper protective equipment, including respiratory protection. 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	: In case of fire, corrosive and harmful gases come free.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage. Stop leak if safe to do so.
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##### 6.1.1. For non-emergency personnel

Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Ventilate spillage area.

##### 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. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Stop leak if safe to do so. Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment	: For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. 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. Ensure that there is a suitable ventilation system. Do not handle in a confined space. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Protective clothing (with elasticated cuffs and closed neck). Do not breathe vapors, spray, mist. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Handling temperature	: 10 – 50
Hygiene measures	: 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	: Ensure adequate ventilation, especially in confined areas. Keep in a cool, well-ventilated place away from heat. Store in a well-ventilated place. Keep container tightly closed.
Storage conditions	: Keep cool. Protect from sunlight.
Incompatible materials	: Direct sunlight. Heat sources. Combustible materials.
Storage temperature	: 10 – 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	: Store always product in container of same material as original container. Do not store in corrodable metal.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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<b>Magna Duramax - Black</b>
No additional information available
<b>Proprietary (Photoinitiator) (162881-26-7)</b>
No additional information available
<b>Proprietary (Monomer) (3395-98-0)</b>
No additional information available
<b>Proprietary (Aliphatic Urethane Oligomer) (72869-86-4)</b>
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:

Gloves. Protective clothing. Safety glasses. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

#### Skin and body protection:

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 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):



#### 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

Physical state : Liquid  
Appearance : Liquid.  
Color : Black  
Odor : characteristic  
Odor threshold : No data available  
pH : 7 (≤)  
Melting point : Not applicable  
Freezing point : No data available

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Boiling point	: 100 °C
Flash point	: > 100 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: ≤
Flammability	: No data available
Vapor pressure	: > 0.034 hPa @25 °C. The product has not been tested.,The statements are based on the properties of the individual components.
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 1.09 g/cm <sup>3</sup> @ 20 °C
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: 169.17 °C 204.53 kJ/kg
No data available	Viscosity, kinematic : No data available
Viscosity, dynamic	: 300 – 500 mPa·s
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)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

ATE US (oral)	857.143 mg/kg body weight
<b>Proprietary (Photoinitiator) (162881-26-7)</b>	
LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Guideline: EU Method B.1 (Acute Toxicity (Oral))
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: other:92/69/EEC
<b>Proprietary (Monomer) (3395-98-0)</b>	
LD50 oral rat	300 – 2000 mg/kg body weight OECD Guideline 423
LD50 dermal rat	> 2000 mg/kg body weight OECD Guideline 423
ATE US (oral)	300 mg/kg body weight
<b>Proprietary (Aliphatic Urethane Oligomer) (72869-86-4)</b>	
LD50 oral rat	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)

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### Proprietary (Aliphatic Urethane Oligomer) (72869-86-4)

LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Remarks on results: no indication of skin irritation up to the relevant limit dose level
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Skin corrosion/irritation	: Not classified pH: 7 (≤)
Serious eye damage/irritation	: Not classified pH: 7 (≤)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

### Proprietary (Aliphatic Urethane Oligomer) (72869-86-4)

NOAEL (chronic,oral,animal/male,2 years)	100 – 300 mg/kg body weight Combined 28-Day Repeated
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Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

### Proprietary (Photoinitiator) (162881-26-7)

NOAEL (oral, rat, 90 days)	> 1000 mg/kg body weight Animal: rat, Guideline: other:92/69/eec
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Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects	: May be harmful in contact with skin. May be harmful if swallowed and enters airways.
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	: None under normal conditions.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. May be harmful if swallowed.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: Toxic to aquatic life with long lasting effects.
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### Proprietary (Photoinitiator) (162881-26-7)

LC50 - Fish [1]	> 0.09 mg/l Test organisms (species): other:Zebra Fish Brachydanio rerio
EC50 - Crustacea [1]	> 1.175 mg/l Test organisms (species): other aquatic crustacea:Daphnia Magna

### Proprietary (Monomer) (3395-98-0)

LC50 - Fish [1]	120 mg/l Brachydanio rerio (OECD 203; ISO 7346; 84/449/EEC, C.1, static)
EC50 - Crustacea [1]	> 120 mg/l Daphnia magna (OECD Guideline 202, part 1, static)

### Proprietary (Aliphatic Urethane Oligomer) (72869-86-4)

LC50 - Fish [1]	10.1 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	> 1.2 mg/l Test organisms (species): Daphnia magna
NOEC chronic algae	0.21 mg/l NOEC Green Algae (Desmodesmus subspicatus), 72hr, Growth Inhibition (OECD 201)

### 12.2. Persistence and degradability

### Proprietary (Monomer) (3395-98-0)

Persistence and degradability	Product is practically not biodegradable.
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### Proprietary (Aliphatic Urethane Oligomer) (72869-86-4)

Biodegradation	22 % Ready biodegradability 28 days
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### 12.3. Bioaccumulative potential

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### Proprietary (Monomer) (3395-98-0)

Partition coefficient n-octanol/water (Log Pow) 0.8

### Proprietary (Aliphatic Urethane Oligomer) (72869-86-4)

Partition coefficient n-octanol/water (Log Pow) 3.39 @ 20 °C OECD 117

#### 12.4. Mobility in soil

No additional information available

#### 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	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not regulated

### Transportation of Dangerous Goods

Not regulated

### Transport by sea

Not regulated

### Air transport

Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Magna Duramax - 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 (Photoinitiator)	CAS-No. 162881-26-7	≥ 3 – < 5%
Proprietary (Monomer)	CAS-No. 3395-98-0	≥ 25 – < 50%
Proprietary (Aliphatic Urethane Oligomer)	CAS-No. 72869-86-4	≥ 3 – < 5%

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 (Photoinitiator) (162881-26-7)

EPA TSCA Regulatory Flag PMN - PMN - indicates a commenced PMN substance.

#### Proprietary (Monomer) (3395-98-0)

EPA TSCA Regulatory Flag PMN - PMN - indicates a commenced PMN substance.  
S - S - indicates a substance that is identified in a final Significant New Use Rule.

### 15.2. International regulations

#### CANADA

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### Proprietary (Photoinitiator) (162881-26-7)

Listed on the Canadian DSL (Domestic Substances List)

### Proprietary (Monomer) (3395-98-0)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

### Proprietary (Aliphatic Urethane Oligomer) (72869-86-4)

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

#### EU-Regulations

No additional information available

#### National regulations

### Proprietary (Photoinitiator) (162881-26-7)

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

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### 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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Revision date : 04/09/2024

Full text of hazard classes and H-statements:

H302	Harmful if swallowed
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.*