

SAFETY GUIDELINES

PHOTOCENTRIC 3D RESIN CLEANER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: Photocentric Resin Cleaner

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Industrial application
Surface coating Cleaning agent. Metallurgical
Industry Lab Reagent
Oilfields Additive for Agrochemicals

1.3 Details of the supplier of the safety data sheet

Supplier:

Photocentric Ltd
Cambridge House, Oxney Rd
Peterborough PE1 5YW
UNITED KINGDOM
Telephone: +44 (0)1733 349937
E-mail address: info@photocentric.co.uk
www.photocentricgroup.com

1.4. Emergency telephone number

+44 (0) 1733 349937 (office hours only)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification under EC 1272/2008 CLP: Not a
hazardous substance or mixture according to EC
1272.2008.

2.2 Label elements

Label elements: Not applicable

Hazard statements: Not a hazardous substance or

mixture according to EC 1272.2008.

2.3 Other hazards

PBT: This product is not identified as a PBT/vPvB
substance.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Hazardous ingredients:

Propylene glycol ethers			
-	Proprietary	-	97-100%
-	Proprietary	-	<5%
-	Proprietary	-	<5%

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Skin contact: Remove affected person from source
of contamination. Remove contaminated clothing.
Wash skin thoroughly with soap and water. Get
medical attention if any discomfort continues.

Eye contact: Rinse immediately with plenty of
water. Remove any contact lenses and open
eyelids wide apart. Continue to rinse for at least
15 minutes. Get medical attention if any discomfort
continues.

Ingestion: Rinse mouth thoroughly with water. Get
medical attention if any discomfort continues.

Inhalation: Move affected person to fresh air
at once. Rinse nose and mouth with water. Get
medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: No specific symptoms known.
term exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor: No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards: Oxides of the following substances: Carbon. Aldehydes. Ketones.

Hazardous combustion products: Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3 Advice for fire-fighters

Advice for fire-fighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

Protective actions during firefighting: Contain and collect extinguishing water. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Provide adequate ventilation.

6.2 Environmental precautions

Environmental precautions: Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Clean-up procedures: Stop leak if possible, without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water.

Collect and place in suitable waste disposal containers and seal securely.

For waste disposal, see Section 13.

6.4 Reference to other sections

Reference to other sections: Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from light.

7.3 Specific end use(s)

Specific end use(s): The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

Ingredient Comments: No exposure limits known for ingredient(s).

DNEL/PNEC Values

DNEL

Workers - Dermal; Long term systemic effects:

96 mg/kg/day

Workers - Inhalation; Long term systemic effects:

187 mg/m³

Consumer - Dermal; Long term systemic effects:

41 mg/kg/day

Consumer - Inhalation; Long term systemic effects:

19 mg/m³

Consumer - Oral; Long term systemic effects: 8.2

mg/kg/day

PNEC

- Fresh water; 116.2 mg/l

- Marine water; 11.62 mg/l

- Intermittent release; 1161.9 mg/l

- STP; 200 mg/l

- Sediment (Freshwater); 433.4 mg/l

- Sediment (Marinewater); 43.3 mg/kg

- Soil; 18.52 mg/kg

8.2 Exposure controls

Protective Equipment:



Engineering measures:

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye protection: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield. EN 166

Hand protection: The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least 8 hours. Viton rubber (fluoro rubber). glove thickness 0.4mm Butyl rubber. glove thickness 0.5mm EN 374

Respiratory protection: Respiratory protection may be required if excessive airborne contamination occurs. EN136/140/145/143/149

Skin protection: Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures: Provide eyewash station.

Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Liquid.

Colour Blue.

Odour Ether, scented

Odour threshold No information available.

pH No information available.

Melting point No information available.

Initial boiling point and range 242.8°C @ 760 mm Hg

Flash point 124°C PMCC (Pensky-Martens closed cup).

Evaporation rate No information available.

Evaporation factor No information available.

Flammability (solid, gas) No information available.

Upper/lower flammability or explosive limits Lower flammable/explosive limit:

0.8 % Upper flammable/explosive limit: 8.5 %

Other flammability No information available.

Vapour pressure 1.7 Pa @ 25°C

Vapour density 7.15

Relative density 0.9650

Bulk density No information available.

Solubility(ies) Soluble in water.

Partition coefficient log Pow: 0.31

Auto-ignition temperature 277°C

Decomposition Temperature No information available.

Viscosity 5.5 mPa s @ 25°C

Explosive properties No information available.

Explosive under the influence of a flame

No information available.

Oxidising properties No information available

9.2 Other information

Molecular weight: 206.3 g/mol

Other information: No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity: There are no known reactivity hazards associated with this product.

10.2 Chemical stability

Chemical stability: Stable at normal ambient temperatures and when used as recommended.

10.3 Possibility of hazardous reactions

Hazardous reactions: Will not polymerise.

10.4 Conditions to avoid

Conditions to avoid: Avoid excessive heat for prolonged periods of time.

10.5 Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Strong alkalis

10.6 Hazardous decomposition products

Haz. decomp. products: Fire creates: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO₂). Aldehydes. Ketones.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

11.1 Information on toxicological effects

Acute toxicity:

Acute oral toxicity

Acute toxicity oral (LD₅₀mg/kg) 3,500.0

Species Rat

ATE oral (mg/kg) 3,500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀mg/kg) 15,440.0

Species Rabbit

ATE dermal (mg/kg) 15,440.0

Skin corrosion/irritation

Animal data Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation May cause temporary eye irritation.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Carcinogenicity

Carcinogenicity No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Vapours and spray/mists in high concentrations are narcotic.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.

Ingestion May cause discomfort if swallowed.

Skin contact Liquid may irritate skin.

Eye contact Vapour or spray in the eyes may cause irritation and smarting.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1 Toxicity

Toxicity Not considered toxic to fish.

Acute toxicity - fish LC₅₀, 96 hours: 11619 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity – aquatic invertebrates LC₅₀, 48 hours: >10000 mg/l, Daphnia magna

12.2 Persistence and degradability

The product is readily biodegradable.

Biodegradation - Degradation 60%: 28 days OECD 301F

12.3. Bioaccumulative potential

Bioaccumulation: Bioconcentration potential is low BCF < 100.

Partition coefficient: log Pow: 0.31.

12.4. Mobility in soil

Mobility in soil: The product is water-soluble and may spread in water systems.

Surface tension 68.8 mN/m @ 20°C

12.5. Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

General information

Do not puncture or incinerate, even when empty. Waste should be treated as controlled waste.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: TRANSPORT INFORMATION

Transport class: The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

UN Number Not applicable

UN Proper Shipping Name Not applicable

Transport Hazard Class(es) Not applicable

Packing Group Not applicable

Environmental Hazards No

Special Precautions No

Bulk Transport Restrictions Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental

regulations/legislation specific for the substance or mixture

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

15.2 Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

CAS: Chemical Abstracts Service.

DNEL: Derived No Effect Level.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods.

Kow: Octanol-water partition coefficient.

LC₅₀: Lethal Concentration to 50 % of a test population.

LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).

PBT: Persistent, Bioaccumulative and Toxic substance.

PNEC: Predicted No Effect Concentration.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.

RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

vPvB: Very Persistent and Very Bioaccumulative.

IARC: International Agency for Research on Cancer.

cATpE: Converted Acute Toxicity Point Estimate.

BCF: Bioconcentration Factor.
BOD: Biochemical Oxygen Demand.
EC₅₀: 50% of maximal Effective Concentration.
LOAEC: Lowest Observed Adverse Effect Concentration.
LOAEL: Lowest Observed Adverse Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.
LOEC: Lowest Observed Effect Concentration.
DMEL: Derived Minimal Effect Level.
EL50: Exposure Limit 50
hPa: Hectopascal
LL50: Lethal Loading fifty
OECD: Organisation for Economic Co-operation and Development
POW: Octanol-water partition coefficient
SCBA: self-contained breathing apparatus
STP: Sewage Treatment Plant
VOC: Volatile Organic Compounds

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.