

CO₂ EMULATION FLUID

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product name CO2 Emulation Fluid

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

Description Special effects fluid.

1.3. Details of the supplier of the safety data sheet

Company
Address
Prolight Concepts (UK) Ltd
Edison Point
Regent Street
Colne
BB8 8LJ

Web
Telephone
Fax
Email
Email address of the
competent person
www.prolight.co.uk
+44 (0) 1254 704111
N/A
info@prolight.co.uk
info@prolight.co.uk

1.4. Emergency telephone number +44 (0) 1254 704111

Emergency telephone number +44 (0) 1254 704111
Monday-Friday, 9am-5.30pm

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Main hazards No Significant Hazard

2.3. Other hazards

Other hazards No information is available that indicates that the ingredients meet the criteria for classification as PBT or vPVB in accordance with Annex XIII of Regulation 1907/2006 (REACH).

SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Mono propylene glycol (Propane-1,2-diol total vapour and particulates)		57-55-6	200-338-0		10-40%	

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3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Mono propylene glycol (Propane-1,2-diol total vapour and particulates)		57-55-6	200-338-0		10-40%	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation of liquid	Move the exposed person to fresh air.
Eye contact with liquid	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
Skin contact with liquid	Wash off immediately with plenty of soap and water. Remove contaminated clothing.
Ingestion of liquid	Rinse mouth thoroughly. Drink 1 to 2 glasses of water. DO NOT INDUCE VOMITING.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation of liquid	May cause minor irritation to respiratory system.
Eye contact with liquid	May cause minor irritation to eyes.
Skin contact with liquid	May cause minor irritation to skin.
Ingestion of liquid	May cause minor irritation to mucous membranes.

4.3. Indication of any immediate medical attention and special treatment needed

Inhalation of liquid	Seek medical attention if irritation or symptoms persist.
Eye contact with liquid	Seek medical attention if irritation or symptoms persist.
Skin contact with liquid	Seek medical attention if irritation or symptoms persist.
Ingestion of liquid	Seek medical attention if irritation or symptoms persist.

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area.
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6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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6.4. Reference to other sections

	See section 2, 3, 8, 13 for further information.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.
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7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled
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7.2. Conditions for safe storage, including any incompatibilities

	containers. Store at temperatures between 5 °C and 20 °C.
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7.3. Specific end use(s)

	Special effects fluidfor creation of smoke effects.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

	See section 8.2 for further information.
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8.1.1. Exposure Limit Values

Mono propylene glycol (Propane-1,2-diol particulates)	WEL 8-hr limit ppm:-	WEL 8-hr limit mg/m3:10
	WEL 15 min limit ppm:-	WEL 15 min limit mg/m3:-
Mono propylene glycol (Propane-1,2-diol total vapour and particulates)	WEL 8-hr limit ppm:150	WEL 8-hr limit mg/m3:474
	WEL 15 min limit ppm:-	WEL 15 min limit mg/m3:-

8.2. Exposure controls

8.2.1. Appropriate engineering controls 8.2.2. Individual protection measures Eye / face protection Skin protection - Handprotection	Ensure adequate ventilation of the working area.
	Wear protectivegloves if decanting product.
	If decanting and in case of splashing, wear: Approved safety goggles.
	Chemical resistant gloves (PVC).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Clear
Odour	Odourless
Odour Threshold	No data available
pH	Neutral
Melting point	<-20C
Freezing point	No data available
Boiling point	+100C
Flash point	>76C
Evaporation rate	0.003
Flammability limits	No data available
Vapour pressure	2.7kPa @20C
Vapour density	3.7
Relative density	1.1 @ 20C
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	1.05
Explosive	No data available
Oxidising	No data available
Solubility	Completely soluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	Not applicable.
Benzene Content	Not applicable.
Lead content	Not applicable.
VOC (Volatile organic compounds)	Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

	No data available.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	No data available.
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10.4. Conditions to avoid

	High temperatures.
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10.5. Incompatible materials

	Strong oxidisers and acids.
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10.6. Hazardous decomposition products

	Burning produces irritating, toxic carbon based products.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	LD 50 for monopropylene Glycol 21000-33700 mg/Kg oral - Rat
Skin corrosion/irritation	May cause minor irritation to skin.

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11.1. Information on toxicological effects

Serious eye damage/irritation May cause minor irritation to eyes.

Respiratory or skin sensitisation No sensitisation effects reported.

11.1.4. Toxicological Information

No evidence of toxicological effects

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

Biodegradable.

12.3. Bioaccumulative potential

Very low.

12.4. Mobility in soil

High. Soluble in water.

12.5. Results of PBT and vPvB assessment

No information is available that indicates that the ingredients meet the criteria for classification as PBT or vPVB in accordance with Annex XIII of Regulation 1907/2006 (REACH).

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Contact a licensed waste disposal company.

Disposal of packaging

Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.

SECTION 14: Transport information

ADR/RID

The product is not classified as dangerous for carriage.

IMDG

The product is not classified as dangerous for carriage.

IATA

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations	Symbol: No risk or safety symbols stipulated
	Risk phrases: No risk phrases stipulated
	Safety phrases: No safety phrases stipulated

15.2. Chemical safety assessment

	Considered safe for purpose.
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SECTION 16: Other information

Further information

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.
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