

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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# CO2 SIM

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the substance/mixture and of the company/undertaking
CO2 SIM
the substance or mixture and uses advised against
Special effects fluid.
e safety data sheet
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ication
nce or mixture
No Significant Hazard
No information is available that indicates that the ingredients meet the criteria for classification as

# 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		57-55-6	200-338-0		10-40%	
(Propane-1,2-diol total vapour and						
particulates)						

PBT or vPVB in accordance with Annex XIII of Regulation 1907/2006 (REACH).

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#### 3.2. Mixtures

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

Move the exposed person to fresh air

#### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Inhalation of liquid

ililiaiation of liquid	wove the exposed person to fresh all.
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 a	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.
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# SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Ingestion of liquid

Use extinguishing media appropriate to the surrounding fire conditions.

#### 5.2. Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes.

Seek medical attention if irritation or symptoms persist.

#### 5.3. Advice for firefighters

Wear suitable respiratory equipment when necessary.

#### SECTION 6: Accidental release measures

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

Ensure adequate ventilation of the working area.

#### 6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

# 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.

### 6.4. Reference to other sections

See section 2, 3, 8, 13 for further information.

### 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.

# 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.			
7.3. Specific end use(s)					
	Special effects fluid for creation of smoke effects	ects.			
SECTION 8: Exposure contr	ols/personal protection				
8.1. Control parameters					
	See section 8.2 for further information.				
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			
(Proparie-1,2-dioi particulates)	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -			
Mono propylene glycol	WEL 8-hr limit ppm: 150	WEL 8-hr limit mg/m3: 474			
(Propane-1,2-diol total vapour and particulates)					
and partioulates)	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -			
8.2. Exposure controls					
6.2. Exposure controls	T				
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working a	rea.			
8.2.2. Individual protection	Wear protective gloves if decanting product.				
measures					
Eye / face protection	If decanting and in case of splashing, wear:	Approved safety goggles.			
Skin protection - Handprotection	Chemical resistant gloves (PVC).				
SECTION 9: Physical and of	hemical properties				

# 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 pН Neutral **Melting point** <-20C Freezing point No data available **Boiling point** +100C >76C Flash point **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
Surface tension
Gas group
Benzene Content
Lead content
VOC (Volatile organic compounds)
No data available
Not available
Not applicable.
Not applicable.
Not applicable.

## SECTION 10: Stability and reactivity

1	0.	1	Rea	ctivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

High temperatures.

10.5. Incompatible materials

Strong oxidisers and acids.

10.6. Hazardous decomposition products

Burning produces irritating, toxic carbon based products.

# 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 toxicologic	al effects				
Serious eye damage/irritation	May cause minor irritation to eyes.				
Respiratory or skin	No sensitisaton effects reported.				
sensitisation					
11.1.4. Toxicological Informatio					
	No evidence of toxicological effects				
SECTION 12: Ecological info	ormation				
12.1. Toxicity					
	No data available				
12.2. Persistence and degradat	oility				
	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 cons	iderations				
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 info	rmation				
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 inf	ormation				
	nmental 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				

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.

## 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.