Safety Data Sheet

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date: 17-Jan-2023 Version 2

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

1.1. Product identifier

SDS # PYR-EU-LCSGALSOL
Product Code LCS10 / LCS20 / GALSOL
Product Name PYRAMEX Lens Cleaner Liquid

Other means of identification

Pure substance/mixture Mixture

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

Recommended Use Lens cleaner

1.3. Details of the supplier of the safety data sheet

Supplier

Pyramex Safety Products Ltd Unit 10 Lane End Farm Industrial Units Hatt Common, RG20 0NG UK

For further information, please contact

Contact Point Pyramex Safety Products Ltd – Tel: +44 (0) 1635 254220

Email Address jputt@pyramex.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Signal word

None

Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP] EUH210 - Safety data sheet available on request

2.3. Other hazards

No information available.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Ethylene Glycol Monobutyl Ether 111-76-2	5-15	No data available	(603-014-00-0) 203-905-0	Acute Tox. 4 (H302) Acute Tox. 3 (H331) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	-	-	-

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Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
			hour - dust/mist -	hour - vapor - mg/L	hour - gas - ppm
			mg/L		
Ethylene Glycol Monobutyl	1200 ⁺	435	Inhalation LC50 Rat	450	Inhalation LC50 Rat
Ether	470		450 ppm 4 h	486	450 ppm 4 h
111-76-2			(females, vapor,	3+	(females, vapor,
			Source:	2.1749	Source:
			NLM_PUBMED);	2.3489	NLM_PUBMED);
			Inhalation LC50 Rat		Inhalation LC50 Rat
			486 ppm 4 h		486 ppm 4 h
			(males, vapor,		(males, vapor,
			Source:		Source:
			NLM_PUBMED)		NLM_PUBMED)

⁺ This value is the harmonised acute toxicity estimate (ATE) listed in CLP Annex VI, Part 3. This harmonised ATE value must be used when calculating the acute toxicity estimate (ATEmix) for classifying a mixture containing the listed substance

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact In the case of skin irritation or allergic reactions see a physician. Wash skin with soap and

water.

Ingestion Rinse mouth.

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

Symptoms Prolonged contact may cause redness and irritation.

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

Note to physiciansTreat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust). Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510) Storage class 10.

7.3. Specific end use(s)

Specific Use(s)
Eyeglass lens cleaner.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Ethylene Glycol	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm	STEL: 50 ppm	TWA: 20 ppm
Monobutyl Ether	TWA: 98 mg/m ³	TWA: 98 mg/m ³	TWA: 98 mg/m ³	STEL: 246 mg/m ³	TWA: 98 mg/m ³
111-76-2	STEL: 50 ppm	STEL 40 ppm	STEL: 50 ppm	TWA: 20 ppm	STEL: 50 ppm
	STEL: 246 mg/m ³	STEL 200 mg/m ³	STEL: 246 mg/m ³	TWA: 98 mg/m ³	STEL: 246 mg/m ³
	*	H*	D*	K*	*
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Ethylene Glycol	*	TWA: 100 mg/m ³	TWA: 20 ppm	S+	TWA: 20 ppm
Monobutyl Ether	STEL: 50 ppm	Ceiling: 200 mg/m ³	TWA: 98 mg/m ³	TWA: 20 ppm	TWA: 98 mg/m ³
111-76-2	STEL: 246 mg/m ³	D*	H*	TWA: 98 mg/m ³	STEL: 50 ppm
	TWA: 20 ppm			STEL: 50 ppm	STEL: 250 mg/m ³
	TWA: 98 mg/m ³			STEL: 246 mg/m ³	iho*
				Α*	
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Ethylene Glycol	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm	TWA: 25 ppm	TWA: 98 mg/m ³
Monobutyl Ether	TWA: 49 mg/m ³	TWA: 49 mg/m ³	TWA: 49 mg/m ³	TWA: 120 mg/m ³	STEL: 246 mg/m ³
111-76-2	STEL: 50 ppm	H*	Peak: 20 ppm	*	b*
	STEL: 246 mg/m ³		Peak: 98 mg/m ³		
	*		*		
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Ethylene Glycol	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm	TWA: 10 ppm
Monobutyl Ether	TWA: 98 mg/m ³	TWA: 98 mg/m ³	TWA: 97 mg/m ³	TWA: 98 mg/m ³	TWA: 50 mg/m ³
111-76-2	STEL: 50 ppm	STEL: 50 ppm		STEL: 50 ppm	STEL: 20 ppm
	STEL: 246 mg/m ³	STEL: 246 mg/m ³		STEL: 246 mg/m ³	STEL: 100 mg/m ³
	Sk*	cute*		Ada*	O*
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Ethylene Glycol	STEL: 50 ppm	STEL: 50 ppm	TWA: 100 mg/m ³	TWA: 10 ppm	STEL: 200 mg/m ³
Monobutyl Ether	STEL: 246 mg/m ³	STEL: 246 mg/m ³	STEL: 246 mg/m ³	TWA: 50 mg/m ³	TWA: 98 mg/m ³
111-76-2	TWA: 20 ppm	TWA: 20 ppm	H*	STEL: 20 ppm	skóra*
	TWA: 98 mg/m ³	TWA: 98 mg/m ³		STEL: 75 mg/m ³	
	Peau*	skin*		H*	
		_			_
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Ethylene Glycol	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm

Monobutyl Ether	TW	A: 98 mg/m ³	TWA: 98 mg/m ³	TWA: 98 mg/m ³	TWA: 9	98 mg/m ³	TWA: 98 mg/m ³
111-76-2	ST	EL: 50 ppm	STEL: 50 ppm	K*	STEL	: 50 ppm	STEL: 50 ppm
	STEI	_: 246 mg/m ³	STEL: 246 mg/m ³	Ceiling: 246 mg/m ³	STEL: 2	246 mg/m ³	STEL: 245 mg/m ³
	(Cutânea*	P*			K*	vía dérmica*
Chemical name		Sı	weden	Switzerland		Uni	ted Kingdom
Ethylene Glycol Monob	Ethylene Glycol Monobutyl NGV		: 10 ppm	TWA: 10 ppm		T۱	VA: 25 ppm
Ether	her NGV:		50 mg/m ³	TWA: 49 mg/m	3	TW	A: 123 mg/m ³
111-76-2 Bindande		KGV: 50 ppm	STEL: 20 ppm		STEL: 50 ppm		
Bindande k		GV: 246 mg/m ³	STEL: 98 mg/m	1 ³	STE	L: 246 mg/m ³	
			H*	H*			Sk*

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Biological occupational exposure limits

Chemical name	European Union	Austria	Bulg	garia	Croatia	Czech Republic
Ethylene Glycol	-	-		-	-	200 mg/g Creatinine
Monobutyl Ether						(urine - Butoxyacetic
111-76-2						acid end of shift at
						end of workweek)
						0.17 mmol/mmol Creatinine (urine -
						Butoxyacetic acid
						end of shift at end of
						workweek)
Chemical name	Denmark	Finland	Fra	nce	Germany DF	,
Ethylene Glycol	-	-		-		tinine 150 mg/g Creatinine
Monobutyl Ether						acetic (urine - Butoxyacetic
111-76-2					acid (after	
					hydrolysis) for I	
					term exposure	•
					the end of the	
					after several sh	,
						tinine 150 mg/g Creatinine
					acid (after	acetic (urine - Butoxyacetic acid (after
					hydrolysis) en	
					shift)	shift)
					150 mg/g Creat	
					- BAT (for long-	
					exposures: at	
					end of the shift	after
					several shifts) ι	
					150 mg/g Creat	
					- BAT (end	
					exposure or er	
Chaminal range	I I	lualan	_	lt-al-	shift) urine	
Chemical name Ethylene Glycol	Hungary	Ireland 200 mg/g Cr		italy	MDLPS	Italy AIDII 200 mg/g Creatinine -
Monobutyl Ether	-	(urine - end			-	urine (Butoxyacetic acid
111-76-2		(dille - ella	OI SIIIII)			(with hydrolysis)) - end of
111702						shift
						0
01 : 1	01	2				11.'6 112'
Chemical name	Slovenia	Spain			itzerland	United Kingdom
Ethylene Glycol	150 mg/g Creatinine -	200 mg/g Cr				240 mmol/mol creatinine -
Monobutyl Ether	urine (Butoxyacetic acid	(urine - Butoxya	acello acid	(urine - 2	2-Butoxyacetic	urine (Butoxyacetic acid)

end of the work shift; for long-term exposure: at the end of the work shift	shift)	acid (after hydrolysis) end of shift, and after several shifts (for long-term exposures))	- post shift
after several consecutive			
workdays			

Derived No Effect Level (DNEL) - Workers No information available

Derived No Effect Level (DNEL) - General Public No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

No information available. **Engineering controls**

Personal Protective Equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

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General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid

Appearance Clear, pale pink or pale blue liquid Color Clear, pale pink or pale blue Odor Mild citrus.

Odor Threshold No information available

Remarks • Method **Property** Values

Melting point / freezing point No data available Initial boiling point and boiling 100 - 212 °C

range

Flammability (Solid, Gas) Liquid-Not applicable

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point No data available **Autoignition temperature** No data available

Decomposition temperature

pH (as aqueous solution) No data available Kinematic viscosity No data available

Property Values Remarks • Method

Dynamic Viscosity No data available Water solubility Soluble in water

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Solubility(ies)No data availablePartition CoefficientNo data availableVapor PressureNo data available

Relative Density 1.010

Bulk Density
No data available
No data available

Vapor Density 1.3

Particle characteristics

Particle SizeNo information availableParticle Size DistributionNo information available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion Data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

10.4. Conditions to avoid

Conditions to avoidNone known based on information supplied.

10.5. Incompatible materials

Incompatible materialsNone known based on information supplied.

10.6. Hazardous decomposition products

Hazardous Decomposition Products None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product InformationNo acute toxicity information is available for this product

Skin contact Causes mild skin irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Prolonged contact may cause redness and irritation.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 23,529.40 mg/kg

 ATEmix (dermal)
 21,568.60 mg/kg

 ATEmix (inhalation-vapor)
 58.80 mg/l

 ATEmix (inhalation-dust/mist)
 9.82 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene Glycol Monobutyl	= 470 mg/kg (Rat)	= 435 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
Ether			= 486 ppm (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes mild skin irritation.

Serious eye damage/eye irritation Not classified.

Respiratory or skin sensitization Not classified.

Germ cell mutagenicity Not classified.

Carcinogenicity Not classified.

Reproductive toxicity Not classified.

STOT - single exposure Not classified.

STOT - repeated exposure Not classified.

Aspiration hazard Not classified.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

11.2.2. Other information

Other Adverse Effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Ethylene Glycol	-	LC50: =1490mg/L (96h,	-	EC50: >1000mg/L (48h,
Monobutyl Ether		Lepomis macrochirus)		Daphnia magna)
		LC50: =2950mg/L (96h,		
		Lepomis macrochirus)		

12.2. Persistence and degradability

Persistence/Degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Ethylene Glycol Monobutyl Ether	0.81

12.4. Mobility in soil

Mobility in Soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Ethylene Glycol Monobutyl Ether	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products

Dispose of waste in accordance with environmental legislation. Dispose of in accordance

with local regulations.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

IMDG

14.2 Proper Shipping Name Not regulated

14.2 Proper Shipping Name Not regulated

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ADR

14.2 Proper Shipping Name Not regulated

IATA

14.2 Proper Shipping Name Not regulated

SECTION 15: Regulatory information

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

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
Ethylene Glycol Monobutyl Ether	RG 84
111-76-2	

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
	Alliex Avii	REACH AIRIES ATV
Ethylene Glycol Monobutyl Ether - 111-76-2	75.	-

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/ELIN CS	PICCS	ENCS	IECSC	AIIC	KECL
Ethylene Glycol	Х	X	X	X	Х	Х	X	X
Monobutyl Ether								
111-76-2 (5-15)								

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H331 - Toxic if inhaled

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

+ Sensitizers

Classification procedure					
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used				
Acute oral toxicity	Calculation method				
Acute dermal toxicity	Calculation method				
Acute inhalation toxicity - gas	Calculation method				
Acute inhalation toxicity - vapor	Calculation method				
Acute inhalation toxicity - dust/mist	Calculation method				
Skin corrosion/irritation	Calculation method				
Serious eye damage/eye irritation	Calculation method				
Respiratory sensitization	Calculation method				
Skin sensitization	Calculation method				
Mutagenicity	Calculation method				
Carcinogenicity	Calculation method				
Reproductive toxicity	Calculation method				
STOT - single exposure	Calculation method				
STOT - repeated exposure	Calculation method				
Acute aquatic toxicity	Calculation method				
Chronic aquatic toxicity	Calculation method				
Aspiration hazard	Calculation method				
Ozone	Calculation method				

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)

European Chemicals Agency (ECHA) (ECHA_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

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Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

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Revision Note: Regulatory update

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.

End of Safety Data Sheet