

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

LASCOL USI MAX

Revision date: 24.01.2017

Product code: 152

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

LASCOL USI MAX

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

Coolant Fluid

1.3. Details of the supplier of the safety data sheet

Company name:	LASCOL LUBRIFIANTS	
Street:	28 Avenue Carnot, BP 30038	
Place:	F-78290 CROISSY SUR SEINE	
Telephone:	+33 09.80.52.18.73	Telefax: +33 09.57.94.90.76
e-mail:	lascol.lubrifiants@gmail.com	

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard Statements:

Causes severe skin burns and eye damage.

Harmful to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

2,2-(cyclohexylimino)bisethanol

Signal word: Danger

Pictograms:**Hazard statements**

H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P321 Specific treatment (see information on this label).

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P310 Immediately call a POISON CENTER/doctor.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

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Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
105-59-9	2,2'-(methylimino)diethanol, N-methyldiethanolamine			2,5-10%
	203-312-7	603-079-00-5		
	Eye Irrit. 2; H319			
141-43-5	Ethanolamin - Neutralised			2,5-10%
	205-483-3		01-2119486455-28	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4; H302 H312 H332			
102-71-6	Triethanolamin			2,5-10%
	203-049-8		01-2119486482-31	
4500-29-2	2,2-(cyclohexylimino)bisethanol			2,5 -10 %
	224-809-5			
	Acute Tox. 4, Skin Corr. 1C, STOT RE 2, Aquatic Chronic 3; H302 H314 H373 H412			

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Medical treatment necessary. Do not get in eyes, on skin, or on clothing. Do not breathe gas/fumes/vapour/spray.

Wear personal protection equipment. Avoid contact with skin, eyes and clothes. Avoid contact with skin. Do not effect a mouth-to-mouth resuscitation.

After inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

After contact with skin

Remove contaminated clothing immediately and dispose off safely. Rinse skin with water/shower. Call a physician immediately.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not subject to friction. Call a physician immediately. In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Call a POISON CENTER/doctor/.? if you feel unwell.

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

Causes burns. Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

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Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Foam.
Dry extinguishing powder. Carbon dioxide (CO₂). Water fog. Water.

Unsuitable extinguishing media

none

5.2. Special hazards arising from the substance or mixture

Contaminated fire-fighting water must be collected separately.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protective suit.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Wear personal protection equipment. Avoid contact with skin, eyes and clothes.
Remove persons to safety. Keep away from unprotected people. Keep upwind.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

refer to chapter 8 12,13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation. When using do not eat, drink or smoke. Wear personal protection equipment.

Further information on handling

When using do not eat, drink or smoke.
High slip hazard because of leaking or spilled product.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Advice on storage compatibility

Keep away from food, drink and animal feedingstuffs.
Do not store with strong oxidizing agents.
Keep in a cool place away from acids. Keep in a cool, well-ventilated place away from alkali.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
141-43-5	2-Aminoethanol	1	2.5		TWA (8 h)	WEL
		3	7.6		STEL (15 min)	WEL

8.2. Exposure controls**Protective and hygiene measures**

Wear suitable protective clothing.

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Eye/face protection

Tightly sealed safety glasses. Eye protection: DIN EN 166

Hand protection

Tested protective gloves are to be worn: DIN EN 374 Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Skin protection

Wear personal protection equipment.

Respiratory protection

IF exposed: Use appropriate respiratory protection.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	clear
Odour:	characteristic

	Test method
pH-Value (at 3% °C):	9,5

Changes in the physical state

Melting point:	ASTM D 1120
Initial boiling point and boiling range:	>100 °C
Flash point:	>100 °C

Auto-ignition temperature

Solid:	No information available.
Gas:	No information available.

Density (at 15,5 °C):	1,04 g/cm ³
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9.2. Other information**SECTION 10: Stability and reactivity****10.4. Conditions to avoid**

frost.

10.5. Incompatible materials

Oxidizing agents, strong.
Strong acid
strong alkalis

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

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Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
105-59-9	2,2'-(methylimino)diethanol, N-methyldiethanolamine				
	oral	LD50 mg/kg	4680	Rat	
141-43-5	Ethanolamin - Neutralised				
	oral	ATE mg/kg	500		
	dermal	ATE mg/kg	1100		
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1,5 mg/l		
102-71-6	Triethanolamin				
	oral	LD50 mg/kg	5530	RAT	
	dermal	LD50 mg/kg	22500	RABBIT	
4500-29-2	2,2-(cyclohexylimino)bisethanol				
	oral	LD50 mg/kg	2000	Rat	

Further information

Causes burns. Risk of serious damage to eyes.

SECTION 12: Ecological information**12.1. Toxicity**



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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
105-59-9	2,2'-(methylimino)diethanol, N-methyldiethanolamine					
	Acute fish toxicity	LC50 1000 - 2200 mg/l	96 h	Leuciscus idus		
	Acute algae toxicity	ErC50 37 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 233 mg/l	48 h	Daphnia magna		
141-43-5	Ethanolamin - Neutralised					
	Acute fish toxicity	LC50 227 mg/l	96 h	Pimephales promelas		
	Acute algae toxicity	ErC50 15 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 65 mg/l	48 h	Daphnia magna		
102-71-6	Triethanolamin					
	Acute fish toxicity	LC50 11800 mg/l	96 h			
4500-29-2	2,2-(cyclohexylimino)bisethanol					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Brachydaniorerio		
	Acute algae toxicity	ErC50 12,5 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 163 mg/l	48 h	Daphnia magna		

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
105-59-9	2,2'-(methylimino)diethanol, N-methyldiethanolamine	-1,08
102-71-6	Triethanolamin	-2,53

12.4. Mobility in soil

Miscible with: Water.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

This material and its container must be disposed of as hazardous waste.

The waste code numbers have since 1.1.1999 not only product but essentially application specific. The valid application for waste code can the European Waste Catalogue be removed.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number:	UN 1760
14.2. UN proper shipping name:	CORROSIVE LIQUID, N.O.S. 2,2-(cyclohexylimino)bisethanol
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8



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Classification code: C9
Special Provisions: 274
Limited quantity: 5 L
Transport category: 3
Hazard No: 80
Tunnel restriction code: E

Other applicable information (land transport)

E1

Inland waterways transport (ADN)

14.1. UN number: UN 1760
14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S.
2,2-(cyclohexylimino)bisethanol
14.3. Transport hazard class(es): 8
14.4. Packing group: III
Hazard label: 8



Classification code: C9
Special Provisions: 274
Limited quantity: 5 L

Other applicable information (inland waterways transport)

E1

Marine transport (IMDG)

14.1. UN number: UN 1760
14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S.
2,2-(cyclohexylimino)bisethanol
14.3. Transport hazard class(es): 8
14.4. Packing group: III
Hazard label: 8



Special Provisions: 223, 274
Limited quantity: 5 L
EmS: F-A, S-B

Other applicable information (marine transport)

E1

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1760
14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S.
2,2-(cyclohexylimino)bisethanol
14.3. Transport hazard class(es): 8
14.4. Packing group: III
Hazard label: 8

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Special Provisions: A3 A803
Limited quantity Passenger: 1 L
IATA-packing instructions - Passenger: 852
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 856
IATA-max. quantity - Cargo: 60 L

Other applicable information (air transport)

E1
: Y841

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

Water contaminating class (D): 1 - slightly water contaminating

SECTION 16: Other information**Relevant H and EUH statements (number and full text)**

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)