



## SAFETY DATA SHEET

### Lave Glace Antigél

#### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	Lave Glace Antigél
PRODUCT NO.	919
APPLICATION	Car maintenance product
SUPPLIER	Autosmart International Ltd Lynn Lane, Shenstone, nr Lichfield Staffordshire. WS14 0DH England www.autosmartinternational.com Tel: +44 (0) 1543 481616 (09:00 - 17:00) Fax: +44 (0) 1543 481549 (09:00 - 17:00) info@autosmartinternational.com
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#### 2 HAZARDS IDENTIFICATION

Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

CLASSIFICATION (1999/45) T;R23/24/25, R39/23/24/25. F;R11.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
METHANOL	200-659-6	67-56-1	60-100%	F;R11 T;R23/24/25,R39/23/24/25

The Full Text for all R-Phrases are Displayed in Section 16

#### 4 FIRST-AID MEASURES

##### GENERAL INFORMATION

NOTE! Effects may be delayed. Keep affected person under observation. NOTE! Keep affected person away from heat, sparks and flames! CAUTION! First aid personnel must be aware of own risk during rescue!

##### INHALATION

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

##### INGESTION

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention immediately!

##### SKIN CONTACT

Remove affected person from source of contamination. Promptly flush contaminated skin with water. Promptly remove clothing if soaked through and flush the skin with water.

##### EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

#### 5 FIRE-FIGHTING MEASURES

##### EXTINGUISHING MEDIA

Water spray, fog or mist. Foam. Alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry chemicals, sand, dolomite etc.

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### SPECIAL FIRE FIGHTING PROCEDURES

Keep run-off water out of sewers and water sources. Dike for water control. Cool containers exposed to flames with water until well after the fire is out. Move container from fire area if it can be done without risk. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Use water spray to reduce vapours. Do not scatter spilled material with more water than needed to fight the fire. If risk of water pollution occurs, notify appropriate authorities.

### UNUSUAL FIRE & EXPLOSION HAZARDS

May explode in a fire. May develop highly toxic or corrosive fumes if heated. May form explosive or toxic mixtures with air. May explode when heated or when exposed to flames or sparks. May travel considerable distance to source of ignition and flash back. Vapour explosion and poison hazard indoors, outdoors and in sewers.

### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

For personal protection, see section 8. In case of inadequate ventilation, use respiratory protection.

### ENVIRONMENTAL PRECAUTIONS

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

### SPILL CLEAN UP METHODS

Stop leak if possible without risk. DO NOT touch spilled material! Clean-up personnel should use respiratory and/or liquid contact protection. Wash thoroughly after dealing with a spillage. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. For waste disposal, see section 13.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Protect against direct sunlight. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Avoid acids, moisture, and combustible materials. Read and follow manufacturer's recommendations. Wear full protective clothing for prolonged exposure and/or high concentrations. Do not use contact lenses.

### STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. May attack some plastics, rubber and coatings. Store in tightly closed original container in a dry, cool and well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks.

### STORAGE CLASS

Flammable liquid storage.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
METHANOL	WEL	200 ppm(Sk)	266 mg/m3(Sk)	250 ppm(Sk)	333 mg/m3(Sk)	

WEL = Workplace Exposure Limit.

### PROTECTIVE EQUIPMENT



### PROCESS CONDITIONS

Provide eyewash, quick drench.

### ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation. Provide explosion proof ventilation for high concentrations.

### RESPIRATORY EQUIPMENT

Self-contained breathing apparatus.

### HAND PROTECTION

Use protective gloves made of: Butyl rubber. Viton rubber (fluor rubber). or P.T.F.E (Teflon).

### EYE PROTECTION

Wear approved chemical safety goggles where eye exposure is reasonably probable. Contact lenses should not be worn when working with this chemical!

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### OTHER PROTECTION

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash, quick drench. Wear appropriate clothing to prevent repeated or prolonged skin contact.

### HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet. Promptly remove any clothing that becomes wet.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid Clear Mobile		
COLOUR	Colourless		
ODOUR	Odour of alcohol Characteristic Pungent		
SOLUBILITY	Miscible with water Miscible with: Ethanol. Ether. Benzene. Organic solvents		
MOL. WEIGHT	32.05	BOILING POINT (°C)	~ 65
MELTING POINT (°C)	~ -97	RELATIVE DENSITY	0.792 @ 20 °c
VAPOUR DENSITY (air=1)	1.11	VAPOUR PRESSURE	129 mbar @ 20 °c
EVAPORATION RATE	5.90	VISCOSITY	0.588 cps @ 20 °c
ODOUR THRESHOLD, LOWER	5.00 ppm	ODOUR THRESHOLD, UPPER	ppm
FLASH POINT (°C)	~ 10	AUTO IGNITION TEMPERATURE (°C)	470
FLAMMABILITY LIMIT - LOWER(%)	6.70	FLAMMABILITY LIMIT - UPPER(%)	36

## 10 STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions and recommended use. Avoid: Heat, sparks, flames. Moisture.

### CONDITIONS TO AVOID

Avoid exposure to high temperatures or direct sunlight.

### MATERIALS TO AVOID

Strong oxidising substances.

### HAZARDOUS DECOMPOSITION PRODUCTS

Toxic gases/vapours/fumes of: Carbon monoxide (CO).

## 11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50                      5628 mg/kg (oral rat)

### HEALTH WARNINGS

Gas or vapour is harmful on prolonged exposure or in high concentrations. This chemical may cause skin/eye irritation and burns (corrosive). Toxic through skin absorption (percutaneous). Narcotic effect.

Repeated exposure may cause chronic eye irritation. May cause chemical eye burns. Acute eczematous dermatitis, contact type erythema, oedema, papules, vesicles, bullae, crusts, desquamation. Swallowing concentrated chemical may cause severe internal injury.

### ROUTE OF ENTRY

Inhalation. Ingestion. Skin and/or eye contact.

### TARGET ORGANS

Central nervous system Eyes Gastro-intestinal tract Heart & cardiovascular system Skin

### MEDICAL SYMPTOMS

Extreme irritation of eyes and mucous membranes, including burning and tearing. Visual disturbances, incl. blurred vision. Respiratory failure, death. Severe skin irritation. Nausea, vomiting. Headache. Behavioural changes. Tremors, convulsions.

## 12 ECOLOGICAL INFORMATION

### ECOTOXICITY

The product is mildly toxic to aquatic organisms.

### WATER HAZARD CLASSIFICATION

WGK 1

## 13 DISPOSAL CONSIDERATIONS

### GENERAL INFORMATION

The packaging must be empty (drop-free, when inverted)

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## DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Make sure containers are empty before discarding (explosion risk).

## 14 TRANSPORT INFORMATION



UK ROAD CLASS	3		
PROPER SHIPPING NAME	METHANOL		
UN NO. ROAD	1230	UK ROAD PACK GR.	II
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	II	HAZARD NO. (ADR)	33 Highly flammable liquid (flash-point below 23°C).
HAZARD No. (ADR)	336	ADR LABEL NO.	3 & 6.1
HAZCHEM CODE	2WE	CEFIC TEC(R) NO.	30GFT1-II
RID CLASS NO.	3	RID PACK GROUP	II
UN NO. SEA	1230	IMDG CLASS	3
IMDG PAGE NO.	49 (Vol 2)	IMDG PACK GR.	II
EMS	F-E, S-D	MFAG	19
MARINE POLLUTANT	No.	UN NO. AIR	1230
AIR CLASS	3	AIR SUB CLASS	6.1
AIR PACK GR.	II		

## 15 REGULATORY INFORMATION

## LABELLING



Toxic



Highly Flammable

## CONTAINS

METHANOL

## RISK PHRASES

R11	Highly flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

## SAFETY PHRASES

S1/2	Keep locked up and out of the reach of children.
S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S27	Take off immediately all contaminated clothing.
S35	This material and its container must be disposed of in a safe way.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

## UK REGULATORY REFERENCES

Highly Flammable Liquid Regulations 1972. Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

## EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC.

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### GUIDANCE NOTES

Workplace Exposure Limits EH40.

## 16 OTHER INFORMATION

### GENERAL INFORMATION

Only trained personnel should use this material.

REVISION DATE 28/03/2008

REV. NO./REPL. SDS GENERATED 1

SDS NO. 1

### RISK PHRASES IN FULL

R11 Highly flammable.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

### DISCLAIMER

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.