

**LASAL mixtures grades 41, P51, 53 , P61 , 63 , 66 , 68
,78 , 86 , 97**

LASAL - V01

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

Trade name : LASAL 41
LASAL P51
LASAL 53
LASAL P61
LASAL 63
LASAL 66
LASAL 68
LASAL 78
LASAL 86
LASAL 97

Company identification : Energas Ltd.
Westmorland Street, Hull HU2 0HX,
United Kingdom

Emergency phone nr : 01482 329333

2 COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Preparation : Preparation.
Components : This product is not hazardous.

Substance name	Contents	CAS No	EC No	Annex No	Classification
Carbon dioxide	: Between 1 and 9 %	124-38-9	204-696-9	-----	
Nitrogen	: Between 5 and 40 %	7727-37-9	231-783-9	-----	

3 HAZARDS IDENTIFICATION

Hazards identification : In high concentrations may cause asphyxiation.
Compressed gas.

4 FIRST AID MEASURES

First aid measures

- **Inhalation** : In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

- **Ingestion** : Ingestion is not considered a potential route of exposure.

5 FIRE-FIGHTING MEASURES

Flammable class : Non flammable.

Specific hazards : Exposure to fire may cause containers to rupture/explode.

Hazardous combustion products : None.

Extinguishing media

- **Suitable extinguishing media** : All known extinguishants can be used.

Specific methods : If possible, stop flow of product.
Move away from the container and cool with water from a protected position.

Special protective equipment for fire fighters : In confined space use self-contained breathing apparatus.

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6 ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Evacuate area.
Ensure adequate air ventilation.
Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
- Environmental precautions** : Try to stop release.
- Clean up methods** : Ventilate area.

7 HANDLING AND STORAGE

- Storage** : Keep container below 50°C in a well ventilated place.
- Handling** : Open valve slowly to avoid pressure shock.
Suck back of water into the container must be prevented.
Do not allow backfeed into the container.
Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.
Refer to supplier's container handling instructions.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- Personal protection** : Ensure adequate ventilation.
- Occupational Exposure Limits** : Carbon dioxide : TLV© -TWA [ppm] : 5000
Carbon dioxide : TLV© -STEL [ppm] : 30000
Carbon dioxide : OEL (UK)-LTEL [ppm] : 5000
Carbon dioxide : OEL (UK)-STEL [ppm] : 15000
Carbon dioxide : MAK - Germany [ppm] : 5000

9 PHYSICAL AND CHEMICAL PROPERTIES

- Physical state at 20 °C** : Compressed gas.
- Colour** : Colourless.
- Odour** : Barely perceptible.
- Relative density, gas (air=1)** : Lighter or similar to air.
- Solubility in water [mg/l]** : No reliable data available.

10 STABILITY AND REACTIVITY

- Stability and reactivity** : Stable under normal conditions.

11 TOXICOLOGICAL INFORMATION

- Toxicity information** : No known toxicological effects from this product.

12 ECOLOGICAL INFORMATION

- Ecological effects information** : No known ecological damage caused by this product.
- Effect on ozone layer** : None.



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SAFETY DATA SHEET

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13 DISPOSAL CONSIDERATIONS

- General** : Do not discharge into any place where its accumulation could be dangerous.
Contact supplier if guidance is required.
- Disposal method** : Consult supplier for specific recommendations.

14 TRANSPORT INFORMATION

- UN No.** : 1956
- H.I. nr** : 20
- ADR/RID**
- Proper shipping name** : COMPRESSED GAS, N.O.S. (Helium, Nitrogen)
- ADR Class** : 2
- ADR/RID Classification code** : 1 A
- Labelling ADR** : Label 2.2 : Non flammable, non toxic gas.
- Other transport information** : Avoid transport on vehicles where the load space is not separated from the driver's compartment.
Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.
Before transporting product containers :
- Ensure that containers are firmly secured.
 - Ensure cylinder valve is closed and not leaking.
 - Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
 - Ensure valve protection device (where provided) is correctly fitted.
 - Ensure there is adequate ventilation.
 - Compliance with applicable regulations.

15 REGULATORY INFORMATION

- EC Labelling** : Not classified as dangerous preparation/substance.
- Symbol(s)** : None.
- R Phrase(s)** : None.
- S Phrase(s)** : None.

16 OTHER INFORMATION

- Training advice** : Asphyxiant in high concentrations.
Keep container in a well-ventilated place.
Do not breathe the gas.
The hazard of asphyxiation is often overlooked and must be stressed during operator training.
Receptacle under pressure.
Ensure all national/local regulations are observed.

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