

Page : 1 / 5

Revised edition no: 0

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LASAL 2

EIGA018A



Warning



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

Product identifier

Trade name : LASAL 2
SDS Nr : EIGA018A
Chemical description : Carbon dioxide

CAS No :000124-38-9 EC No :204-696-9 Index No :---

Chemical formula : CO2

Registration-No. : Listed in Annex IV / V REACH, exempted from registration.

Use : Industrial and professional. Perform risk assessment prior to use.

Company identification : Energas Ltd.

Westmorland Street, Hull HU2 0HX,

United Kingdom

E-Mail address (competent person): : Mark Nugent **Emergency telephone number** : 01482 329333

2 Hazards identification

Classification of the substance or mixture

Hazard Class and Category Code Regulation EC 1272/2008 (CLP)

• Physical hazards : Gases under pressure - Compressed gas - Warning (H280)

Classification EC 67/548 or EC 1999/ : Not included in Annex VI.

45 Not classified as dangerous preparation/substance.

No EC labelling required.

Label elements

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms





Page: 2/5

Revised edition no: 0 Date: 28 / 08 / 2014

Supersedes: 0/0/0

LASAL 2

EIGA018A

2 Hazards identification (continued)

: GHS04 • Hazard pictograms code Signal word : Warning

 Hazard statements : H280 : Contains gas under pressure; may explode if heated.

Precautionary statements

: P403 : Store in a well-ventilated place. - Storage

Labelling EC 67/548 or EC 1999/45

Symbol(s) : None. R Phrase(s) : None. S Phrase(s) : None.

Other hazards

Other hazards : Asphyxiant in high concentrations.

3 Composition/information on ingredients

Substance / Preparation : Substance.

Substance name Contents CAS No EC No Index No Registration no Classification 100 % Carbon dioxide 124-38-9 204-696-9 NOTE 1 Liq. Gas (H280) Liq. Gas (H280)

Contains no other components or impurities which will influence the classification of the product.

Note 1: Listed in Annex IV / V REACH, exempted from registration.

Note 2: Registration deadline not expired. Full text of R-phrases see chapter 16

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. Low concentrations of CO2 cause increased respiration and headache. Remove victim to uncontaminated area wearing self contained breathing

apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if

breathing stopped.

- Skin/eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes.

In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing.

Obtain medical assistance.

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

5 Fire-fighting measures

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

: None.

Hazardous combustion products

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.

fighters

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

Energas Ltd.

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Page: 3 / 5

Revised edition no : 0

Date : 28 / 08 / 2014

Supersedes: 0/0/0

LASAL 2

EIGA018A

6 Accidental release measures

Personal precautions : Evacuate area.

Wear self-contained breathing apparatus when entering area unless atmosphere is

proved to be safe.

Ensure adequate air ventilation.

Environmental precautions : Try to stop release.

Prevent from entering sewers, basements and workpits, or any place where its

accumulation can be dangerous.

Clean up methods : Ventilate area.

7 Handling and storage

Handling : 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.

Storage : Keep container below 50°C in a well ventilated place.

8 Exposure controls/personal protection

Personal protection : Ensure adequate ventilation.

Occupational Exposure Limits : Carbon dioxide : ILV (EU) - 8 H - [mg/m³] : 9000

Carbon dioxide : ILV (EU) - 8 H - [ppm] : 5000 Carbon dioxide : TLV© -TWA [ppm] : 5000 Carbon dioxide : TLV© -STEL [ppm] : 30000

9 Physical and chemical properties

Physical state at 20 °C : Gas.

Colour : Colourless.

Odour : No odour warning properties.

Molecular weight : 44 Melting point [°C] : -56.6 Boiling point [°C] : -78.5 (s) Critical temperature [°C] : 30 : 57.3 bar Vapour pressure [20°C] : 1.52 Relative density, gas (air=1) Relative density, liquid (water=1) : 0.82 : 2000 Solubility in water [mg/l]

Flammability range [vol% in air] : Non flammable.

Other data : Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or

below ground level.

10 Stability and reactivity

Hazardous decomposition products : None.

Chemical stability : Stable under normal conditions.

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Page : 4 / 5

Revised edition no: 0

Date: 28 / 08 / 2014

Supersedes: 0/0/0

LASAL 2

EIGA018A

11 Toxicological information

Toxicity information : In high concentrations cause rapid circulatory insufficiency. Symptoms are

headache, nausea and vomiting, which may lead to unconsciousness.

12 Ecological information

Ecological effects information

: When discharged in large quantities may contribute to the greenhouse effect.

Global warming potential [CO2=1] : 1

13 Disposal considerations

General : Do not discharge into any place where its accumulation could be dangerous.

To atmosphere in a well ventilated place.

Discharge to atmosphere in large quantities should be avoided.

Contact supplier if guidance is required.

14 Transport information

UN number : 1013

• Labelling ADR, IMDG, IATA



: 2.2 : Non flammable, non toxic gas.

Land transport

ADR/RID

H.I. nr : 20

UN proper shipping name : CARBON DIOXIDE

Transport hazard class(es) : 2
- ADR/RID Classification code : 2 A
- Packing Instruction(s) - General : P200

- Tunnel Restriction : C/E Tank carriage: Passage forbidden through tunnels of category C, D and E;

Other carriage: Passage forbidden through tunnels of category E

Sea transport

- IMO-IMDG code

• Proper shipping name : CARBON DIOXIDE

Class : 2.2
 IMO Packing group : P200
 Emergency Schedule (EmS) - Fire : F-C
 Emergency Schedule (EmS) - : S-V

Spillage

- Instructions - Packing : P200

Air transport



Page : 5 / 5

Revised edition no: 0

Date: 28 / 08 / 2014

Supersedes: 0/0/0

LASAL 2

EIGA018A

14 Transport information (continued)

- ICAO/IATA

- Proper shipping name : CARBON DIOXIDE

Class : 2.2
 Passenger and Cargo Aircraft : 200
 Cargo Aircraft only : 200
 Packing instruction : 200

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.

: Ensure all national/local regulations are observed.

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

Safety, health and environmental

regulations/legislation specific for the

substance or mixture

Seveso regulation 96/82/EC : Not covered.

16 Other information

Asphyxiant in high concentrations.

Keep container in a well-ventilated place.

Do not breathe the gas.

Contact with liquid may cause cold burns/frostbite.

The hazard of asphyxiation is often overlooked and must be stressed during operator training.

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws.

DISCLAIMER OF LIABILITY

: Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

Details given in this document are believed to be correct at the time of going to press. Before using this product in any new process or experiment, a thorough

material compatibility and safety study should be carried out.

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