Enermix 5

EASYGAS

SAFETY DATA SHEET

IDENTIFICATION OF THE
 SUBSTANCE/MIXTURE AND OF
 THE COMPANY/UNDERTAKING

1.1. Product identifier

Product: Enermix 5

Name

 $\begin{array}{ll} \textbf{Chemical} & : & Ar \, / \, CO_2 \, / \, O_2 \\ \textbf{Formula} & & (mixture) \end{array}$

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

Relevant identified uses

Industrial and professional. Perform risk assessment prior to use.

1.3. <u>Details of the supplier</u> of the SDS

Company : Easy Gas,

IOC Campus

Waterfall Road, Cork

Email: info@easygas.ie

1.4. <u>Emergency telephone</u> number

Emergency: 021-4541149 Telephone (Mon-Fri 08:30-

17:30)

2. HAZARDS IDENTIFICATION

2.1. <u>Classification of the</u> Substance or Mixture

(a) Classification according to Regulation (EC) No 1272/2008/EC [CLP/GHS]

Press. Gas (Compressed gas) H280: Contains gas under pressure; may explode if heated

(b) Classification according to Directive 67/548/EEC & 1999/45/EC

Not classified as hazardous to health.

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Asphyxiant in high

concentrations.

2.2. Label Elements

Hazard pictograms



Signal word

WARNING

Hazard statements

H280: Contains gas under pressure; may explode if heated EIGA-As: Asphyxiant in high concentrations.

Precautionary statements

Prevention

None

Response

None

Storage

P403: Store in a well-ventilated place.

Disposal

None

2.3. Other Hazards

Asphyxiant in high concentrations.

COMPOSITION/INFORMATION ON **INGREDIENTS**

Substance/Mixture: Mixture

3.1. Substances

Not applicable.

3.2. Mixtures

Chemical Name	Carbon Dioxide	Oxygen	Argon
Contents	5%	2%	93%
CAS No.	124-38-9	7782- 44-7	7440-37-1
EC No.	204-696-9	231- 956-9	231-147-0
Index No.		008- 001-00- 8	
REACH Registration No.	Listed in Annex IV / V REACH, exempted from registration.		
Classifica- tion (CLP)	Press Gas. (H280)	Ox. Gas 1 (H270) Press Gas. (H280)	Press Gas. (H280)
Classifica- tion (DSD)	Not classified as hazardous to health	O; R8	Not classified as hazardous to health

FIRST AID MEASURES DESCRIPTION OF FIRST AID MEASURES

Following inhalation

Remove victim to uncontaminated area wearing contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

Following skin contact

Adverse effects not expected from this product.

Following eye contact

Adverse effects not expected from this product.

Following Ingestion

Ingestion is not considered a potential route of exposure.

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

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.

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

None.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

All known extinguishants can be used.

Unsuitable extinguishing media

None.

5.2. Special hazards arising from the substance or mixture

Specific hazards

Exposure to fire may cause containers to rupture/explode.

Hazardous combustion products

None.

5.3. Advice for firefighters

Specific methods

If possible, stop flow of product.

Coordinate fire measure to the surrounding fire. Cool endangered containers with water spray jet from a protected position. Do not empty contaminated fire water into drains.

Special protective equipment for fire-fighters

In confined space use selfcontained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

Ensure adequate air ventilation.

Evacuate area.

Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.2. <u>Environmental</u> precautions

Try to stop release.

6.3. Methods and material for containment and cleaning up

Ventilate area.

6.4. Reference to other sections

See also sections 8 and 13.

7. HANDLING AND STORAGE

7.1. <u>Precautions for safe</u> handling

Safe use of the product

Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.

Do not allow backfeed into the container.

Do not smoke while handling product.

Avoid suckback of water, acid or alkalis.

Only experienced and properly instructed persons should handle gases under pressure.

Ensure the complete gas system has been (or is regularly) checked for leaks before use.

The substance must be handled in accordance with good industrial hygiene and safety procedures.

Safe handling of the gas receptacle

Suck back of water into the container must be prevented.

Refer to supplier's container handling instructions.

Protect cylinders from physical damage; do not drag, roll, slide or drop.

Do not remove or deface labels provided by the supplier for the identification of the cylinder contents. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders.

If user experiences any difficulty operating cylinder valve discontinue use and contact supplier.

Close container valve after each use and when empty, even if still connected to equipment.

Never attempt to repair or modify container valves or safety relief devices.

Damaged valves should be reported immediately to the supplier.

Keep container valve outlets clean and free from contaminates particularly oil and water.

Never attempt to transfer gases from one cylinder/container to another.

Never use direct flame or electrical heating devices to raise the pressure of a container.

Do not remove valve guard from cylinder.

7.2. Conditions for safe storage, including any incompatibilities

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

Stored containers should be periodically checked for general condition and leakage.

Observe all regulations and local requirements regarding storage of containers.

Containers should not be stored in conditions likely to encourage corrosion.

Containers should be stored in the vertical position and properly secured to prevent toppling.

Container valve guards or caps should be in place.

Store containers in location free from fire risk and away from sources of heat and ignition.

Keep away from combustible materials.

7.3. Specific end use(s)

None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

Appropriate engineering controls

Provide adequate general and local ventilation.

Systems under pressure should be regularly checked for leakages.

Consider the use of a work permit system, e.g. for maintenance activities.

Oxygen detectors should be used when asphixiating gases may be released.

Personal protective equipment

A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered:

Wear safety gloves and safety shoes when handling cylinders.

Wear safety glasses with side shields.

Environmental exposure controls

None necessary.

PHYSICAL AND CHEMICAL **PROPERTIES**

9.1. Information on basic physical and chemical properties

Appearance

/ 101.3kPa

 Physical : Gas state at 20°C

: Colourless Colour:

: No odour Odour warning properties.

: Not applicable Hq

for gases and gas mixtures.

Melting point / freezing point

: Not applicable for gas

mixtures.

Boiling point : Not applicable

for gas mixtures.

: Not applicable Flash point

> for gases and gas mixtures.

Evaporation

rate

: Not applicable for gases and gas mixtures.

: Not applicable

Upper/lower flammability or explosive

for gas mixtures.

limits Vapour

: Not

pressure applicable. : Heavier than Relative air.

density, gas (air=1)

Solubility(ies) Solubility in

: No reliable data available.

water

Auto-ignition Not

temperature applicable.

9.2. Other information

Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

10. STABILITY AND REACTIVITY

10.1. Reactivity

No reactivity hazard other than the effects described in subsections below.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

None

10.6. Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

No known toxicological effects from this product.

12. ECOLOGICAL INFORMATION

No known ecological damage caused by this product.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

May be vented to atmosphere in a well ventilated place.

Contact supplier if guidance is required.

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

13.2. Additional information

None.

TRANSPORT INFORMATION

UN Number : 1956

Proper shipping name

: COMPRESSED GAS, N.O.S. (Argon, Carbon

Dioxide)

: 2 Class

Classification: 1 A code

Hazard labels : 2.2 (Non

flammable. non-toxic gases)

Packing : P200

instructions

Hazard : 20

identification number

Tunnel : E

restriction code

IMDG : F-C

Emergency schedule-fire

IMDG : S-V

Emergency schedulespillage

Environmental: None

hazards

: None Special

provisions

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.
- Ensure compliance with applicable regulations.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation

specific for the substance or mixture

Seveso

: Not covered

Directive 96/82/EC

National legislation

: Ensure all national/local regulations are observed.

16. OTHER INFORMATION

16.1. Training advices

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

16.2. Disclaimer

Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Details given in this document are believed to be correct at the time of going to press.

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.