

Safety Data Sheet

Product :

ATAL 5, 5A

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MSDS Nr : 30015L04

Version : 2.20

Date : 17/12/2001

Replaces version dated : 05/09/1997

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

| | |
|-------------------------|---------------------------|
| MSDS Nr | 30015L04 |
| Product name | ATAL 5, 5A |
| Company identification | see heading and/or footer |
| Emergency phone numbers | see heading and/or footer |

2 COMPOSITION/INFORMATION ON INGREDIENTS

| | |
|-----------------------|--|
| Substance/Preparation | Preparation |
| Components/Impurities | Contains the following components: Ar/CO ₂ , CO ₂ <30% Contains no other components or impurities which will influence the classification of the product. |
| EEC Nr (from EINECS) | Not applicable for preparations |

3 HAZARDS IDENTIFICATION

| | |
|------------------------|--|
| Hazards identification | In high concentrations may cause asphyxiation. Compressed gas |
|------------------------|--|

4 FIRST AID MEASURES

| | |
|------------|---|
| Inhalation | Low concentrations of CO ₂ cause increased respiration and headache. 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

| | |
|--|---|
| Specific hazards | Exposure to fire may cause containers to rupture/explode. Non flammable |
| Hazardous combustion products | None that are more toxic than the product itself. |
| 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. |

6 ACCIDENTAL RELEASE MEASURES

| | |
|----------------------|---|
| Personal precautions | Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is |
|----------------------|---|

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| | |
|---------------------------|---|
| Environmental precautions | proved to be safe. Ensure adequate air ventilation. 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 and storage | 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. Keep container below 50°C in a well ventilated place. |
|----------------------|---|

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
|---------------------|------------------------------|
| Personal protection | Ensure adequate ventilation. |
|---------------------|------------------------------|

9 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------|--|
| Relative density, gas | Heavier than air |
| Solubility mg/l water | No reliable data available. |
| Appearance/Colour | Colourless gas |
| Odour | None |
| Other data | Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level. |

10 STABILITY AND REACTIVITY

| | |
|--------------------------|---------------------------------|
| Stability and reactivity | Stable under normal conditions. |
|--------------------------|---------------------------------|

11 TOXICOLOGICAL INFORMATION

| | |
|---------|---|
| General | No known toxicological effects from this product. |
|---------|---|

12 ECOLOGICAL INFORMATION

| | |
|---------|--|
| General | No known ecological damage caused by this product. |
|---------|--|

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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.

14 TRANSPORT INFORMATION

Proper shipping name

COMPRESSED GAS, N.O.S.

UN Nr

1956

Class/Div

2.2

ADR/RID Item Nr

2,1° A

ADR/RID Hazard Nr

20

Labelling ADR

Label 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 they are firmly secured and:

- cylinder valve is closed and not leaking
- valve outlet cap nut or plug (where provided) is correctly fitted
- valve protection device (where provided) is correctly fitted
- there is adequate ventilation.
- compliance with applicable regulations.

15 REGULATORY INFORMATION

Number in Annex I of Dir 67/548

Not applicable for preparations

EC Classification

Not classified as dangerous substance.

EC Labelling (Symbols, R&S phrases)

No EC labelling required.

16 OTHER INFORMATION

Asphyxiant in high concentrations.

Keep container in well ventilated place.

Do not breathe the gas.

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

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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