


SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006

Page 1 of 10

| | | | | | |
|----------------------|---|-----------------------|-------------|---------------|-----|
| AIRBREATH | | | | | |
| Product code: | - | Date of issue: | 19.12.2016. | Issue: | 1.0 |

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

| | |
|---|--|
| 1.1. Product identifier | |
| Substance name: | AIRBREATH |
| Synonyms: | - |
| EC No.: | - |
| 1.2. Relevant identified uses of the substance or mixture and uses advised against | |
| Relevant identified uses: | Breathing air. |
| Uses advised against: | - |
| Reason why uses advised against: | - |
| 1.3. Details of the supplier of the safety data sheet | |
| Supplier: | Air Rio |
| Address: | Dražica 15 51 550 Mali Lošinj, Hrvatska |
| Tel: | +385(0)51/233-777 |
| E-mail: | +385(0)51/233-749 |
| Web: | www.airbreathcroatia.com |
| Competent person responsible for the SDS: | Ivan Volarić E-mail: ivan.volaric@gmail.com ; ivan.volaric@airbreathcroatia.com |
| SDS made by: |  E-mail: info@stl.hr Web: www.stl.hr |
| 1.4. Emergency telephone number | |
| Emergency Service Number: | 112 (National Protection and Rescue Service) |
| Medical information: | 01/23-48-342 (Poison Control Centre, Institute for Medical Research and Occupational Health) |
| Other data: | - |

SECTION 2. HAZARDS IDENTIFICATION

| | |
|---|---------------------------|
| 2.1. Classification of the substance or mixture | |
| 2.1.1. According to Regulation (EC) No 1272/2008 [CLP] | |
| Hazard class and category: | Hazard statement*: |
| Press.gas | H280 |
| 2.1.2. Additional information | |
| - | |


SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006

Page 2 of 10

| AIRBREATH | | | | | |
|----------------------|---|-----------------------|-------------|---------------|-----|
| Product code: | - | Date of issue: | 19.12.2016. | Issue: | 1.0 |

* For the classifications H and EUH not written out in full in this section the full text can be found in section 16.

2.2. Label elements according to Regulation (EC) No 1272/2008 [CLP]

| | |
|---|--|
| Product identifier: | AIRBREATH |
| Pictogram: |  |
| Signal word: | WARNING |
| Hazard statements: | H280 Contains gas under pressure; may explode if heated. |
| Precautionary statements: | <p>[GENERAL] P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.</p> <p>[STORAGE] P410+P412+P403 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.</p> |
| Supplemental Hazard information: | - |

2.3. Other hazards

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| - |
|---|

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Name | CAS Number/ EC Number/ INDEX Number | Weight Content [%] | Classification According to Regulation (EC) No. 1272/2008 [CLP] |
|----------|---|--------------------|---|
| Nitrogen | 7727-37-9/ -/ - | 75 – 80 | Press.gas, H280 |
| Oxygen | 7782-44-7/ 231-956-9/ 008-001-00-8 | 19 – 23 | Ox. gas 1, H270 Press.gas, H280 |

SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006

Page 3 of 10

| | | | | | |
|----------------------|---|-----------------------|-------------|---------------|-----|
| AIRBREATH | | | | | |
| Product code: | - | Date of issue: | 19.12.2016. | Issue: | 1.0 |

SECTION 4. FIRST-AID MEASURES

| | |
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| 4.1. Description of first aid measures | |
| If inhaled: | No first aid measures are necessary. |
| On skin contact: | Take the clothes and footwear off. Rinse the point of contact thoroughly using mild soap and water for at least 10 minutes. If any symptoms occur and/or continue, continue decontamination and seek medical attention. |
| On eye contact: | Keep eyelids apart with clean hands and rinse eyes interchangeably with a gentle stream of running water for at least 15 minutes (60 seconds each eye). In case of occurrence and/or persistence of any symptoms continue decontamination and seek doctor's/ophthalmologist's advice. |
| On ingestion: | No first aid measures are necessary. |
| Self-protection of the first aider: | See SECTION 8. |
| 4.2. Most important symptoms and effects, both acute and delayed | |
| If inhaled: | None. |
| On skin contact: | Contact with fast-expanding gas may cause frostbites. |
| On contact with eyes: | Contact with fast-expanding gas may cause frostbites. |
| On ingestion: | None. |
| 4.3. Indication of any immediate medical attention and special treatment needed | |
| No medical treatment is expected to be required. Treat according to symptoms. | |

SECTION 5. FIRE-FIGHTING MEASURES

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| 5.1. Extinguishing media | |
| Suitable extinguishing media: | Use extinguishing media suitable to the environment. |
| Unsuitable extinguishing media : | Direct water jet may cause fire dispersion. |
| 5.2. Special hazards arising from the substance or mixture | |
| Hazardous combustion products: | Nitrogen oxides (NO _x). |
| 5.3. Advice for firefighters | |
| Special fire-fighting methods: | Use water mist and cooling spray to cool surfaces of undamaged containers exposed to heat, to protect people and remove vapour from the air. Only trained fire-fighters may use water spray zařtitu (dispersed water jet). |
| Special protective equipment: | For extinguishing fires in closed spaces use self-contained compressed air breathing apparatus (e.g. open circuit) (HRN EN 137) and thermal protective suit (HRN EN 367). |
| 5.4. Further information | |
| Compressed gas. In case of fire or heating pressure may built up and the container may break or explode. | |

SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006

Page 4 of 10

| | | | |
|----------------------|---|-----------------------|-------------|
| AIRBREATH | | | |
| Product code: | - | Date of issue: | 19.12.2016. |
| | | Issue: | 1.0 |

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SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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|------------------------------|-----------------------------|
| Protective equipment: | See Section 8. |
| Emergency procedures: | Follow instruction for use. |
| In case of accidents: | - |

For emergency responders

| |
|---|
| - |
|---|

6.2. Environmental precautions

| |
|---|
| - |
|---|

6.3. Methods and material for containment and cleaning up

| | |
|---------------------------|---|
| For containment: | - |
| For cleaning up: | - |
| Other information: | - |

6.4. Reference to other sections

| |
|---|
| 1 (emergency telephone number), 8 (PPE), 13 (waste management). |
|---|

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Protective measures

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| Measures to prevent fire: | Smoking is forbidden. Avoid ignition sources and open flame. |
| Measures to prevent aerosol and dust generation: | Use only in well-ventilated areas. |
| Measures to protect the environment: | - |

Advice on general occupational hygiene


| |
|---|
| Avoid contact with eyes, skin or clothes. |
|---|

7.2. Conditions for safe storage, including any incompatibilities

| | |
|--|---|
| Technical measures and storage conditions: | Store in a cool, dry and well-ventilated place. Keep away from heat, ignition sources and direct sunlight. |
| Packaging materials: | Original packaging. |
| Requirements for storage rooms and vessels: | Keep the containers well-closed. Keep in upright position. Do not store in open and/or unmarked containers. |

SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006

Page 5 of 10

| AIRBREATH | | | | | |
|---|-------------------|--|-------------------|------------------------|-----|
| Product code: | - | Date of issue: | 19.12.2016. | Issue: | 1.0 |
| Advice on storage: | | - | | | |
| Further information on storage conditions: | | Keep away from temperatures over 50 °C/122 °F. | | | |
| 7.3. Specific end use(s) | | | | | |
| Recommendations: | | - | | | |
| Industrial sector specific solutions: | | - | | | |
| SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION | | | | | |
| 8.1. Control parameters | | | | | |
| Substance | CAS Number | Limit value [ppm / mg/m ³] | | Biological limit value | |
| | | Long-term | Short-term | | |
| - | - | - / - | - / - | - | |
| DNEL | | | | | |
| Route of exposure | Route of exposure | Route of exposure | Route of exposure | Route of exposure | |
| Oral: | - | - | - | - | |
| Dermal: | - | - | - | - | |
| Inhalation: | - | - | - | - | |
| PNEC | | | | | |
| Fresh water: | | - | | | |
| Marine water: | | - | | | |
| Water (gradual release): | | - | | | |
| Sediment (fresh water): | | - | | | |
| Sediment (marine water): | | - | | | |
| Microorganisms in sewage treatment: | | - | | | |
| 8.2. Exposure controls | | | | | |
| Appropriate engineering controls | | | | | |
| The effects of ventilation and/or other technical measures may be found in HRN EN 689 – Workplace atmosphere – Guideline for assessment of exposure to chemicals through inhalation and comparison to permissible exposure limits and measurement strategy. | | | | | |
| Personal protection | | | | | |
| Eye and face protection: | | Unnecessary. | | | |
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SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006

Page 6 of 10

| AIRBREATH | | | | | |
|---------------|---|----------------|-------------|--------|-----|
| Product code: | - | Date of issue: | 19.12.2016. | Issue: | 1.0 |

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|--------------------------------|---|--------------|
| Hand protection: |  | Unnecessary. |
| Other skin protection: |  | Unnecessary. |
| Respiratory protection: |  | Unnecessary. |

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| Environmental exposure controls |
| - |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | Value [Method] |
|---|-------------------------|
| Appearance | Pressurized gas (8 bar) |
| Colour: | Colourless |
| Odour: | None |
| pH: | Not applicable |
| Melting point/freezing point [°C]: | -216.2 |
| Boiling point[°C]: | -194.3 |
| Flash point [°C]: | - |
| Evaporation rate (butyl acetate = 1): | - |
| Flammability (solid, gas): | Not applicable |
| Upper and lower flammability or explosive limits [% vol.]: | - |
| Vapour pressure (air = 1): | - |
| Vapour density (air = 1): | 1 |
| Density [kg/m³]: | - |
| Bulk density [kg/m³]: | - |
| Solubility in water: | - |
| Partition coefficient n-octanol/water (log Pow): | - |
| Auto-ignition temperature [°C]: | - |
| Decomposition temperature [°C]: | - |
| Viscosity [Pa.s]: | - |
| Explosive properties: | - |
| Oxidising properties: | - |

SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006

Page 7 of 10

| AIRBREATH | | | | | |
|---------------|---|----------------|-------------|--------|-----|
| Product code: | - | Date of issue: | 19.12.2016. | Issue: | 1.0 |

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| 9.2. Other information |
| - - |

| SECTION 10. STABILITY AND REACTIVITY |
|--------------------------------------|
|--------------------------------------|

| | |
|---|--|
| 10.1. Reactivity | Stable under normal ambient and anticipated storage and handling conditions (see SECTION 7). |
| 10.2. Chemical stability | Stable under normal ambient and anticipated storage and handling conditions (see SECTION 7). |
| 10.3. Possibility of hazardous reactions | - |
| 10.4. Conditions to avoid | - |
| 10.5. Incompatible materials | - |
| 10.6. Hazardous decomposition products | In case of fire see SECTION 5.2. |

| SECTION 11. TOXICOLOGICAL INFORMATION |
|---------------------------------------|
|---------------------------------------|

| |
|---|
| 11.1. Information on toxicological effects |
|---|

| Acute toxicity | | | | | |
|-----------------------|--------|---------|--------------------------|------------------|--------|
| Route of exposure | Method | Species | Dose [LD ₅₀] | Time of exposure | Result |
| Ingestion: | - | - | - | - | - |
| Skin contact: | - | - | - | - | - |
| Inhalation: | - | - | - | - | - |

| | |
|------------------------------|--|
| Irritation /corrosion | |
| Eyes: | Contact with fast-expanding gas may cause frostbite. |
| Respiratory system: | - |
| Skin: | Contact with fast-expanding gas may cause frostbite. |

| | |
|----------------------|---|
| Sensitisation | |
| Skin contact: | - |
| Inhalation: | - |

| | |
|--|---|
| Repeated dose toxicity (subacute, sub chronic, chronic) | |
| | - |

| | |
|------------------------------------|---|
| STOT-single exposure (TCOJ) | |
| | - |

| | |
|---------------------------------------|---|
| STOT-repeated exposure (TCOP): | |
| | - |

SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006

Page 8 of 10

| AIRBREATH | | | | | |
|---------------|---|----------------|-------------|--------|-----|
| Product code: | - | Date of issue: | 19.12.2016. | Issue: | 1.0 |

Aspiration hazard:

-

CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)

Carcinogenicity: -

Mutagenicity: -

Adverse effects on fertility: -

Reproductive toxicity: -

11.2. Practical experience

-

11.3. General instructions

-

SECTION 12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity

-

12.2. Persistence and degradability

Abiotic degradation: -

Biodegradation: -

12.3. Bioaccumulative potential

Partition coefficient n-octanol /water (log Kow): -

Bioconcentration factor (BCF): -

Chronic ecotoxicity: -

12.4. Mobility in soil

Known or predicted distribution to environmental compartments: -

Surface tension: -

Adsorption/Desorption: -

12.5. Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Other adverse effects

-

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

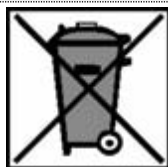
SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006

Page 9 of 10

AIRBREATH

| | | | | | |
|----------------------|---|-----------------------|-------------|---------------|-----|
| Product code: | - | Date of issue: | 19.12.2016. | Issue: | 1.0 |
|----------------------|---|-----------------------|-------------|---------------|-----|

Product / Packaging disposal



Dispose of separately from municipal solid waste! Hand over for disposal to the supplier. Hand over for disposal to authorized legal entities for hazardous waste disposal.

Waste codes

-

Other disposal recommendations

Should not be disposed of as municipal solid waste. Waste should not be disposed of by release to sewers. Non-contaminated packaging may be recycled.

SECTION 14. TRANSPORT INFORMATION



| | ADR / RID | ADN / ADN R | IMDG | ICAO-TI / IATA-DGR |
|---------------------------------------|---|--------------------|--------------------|--------------------|
| UN number: | 1002 | 1002 | 1002 | 1002 |
| UN proper shipping name: | AIR, COMPRESSED | AIR, COMPRESSED | AIR, COMPRESSED | AIR, COMPRESSED |
| Transport hazard class(es): | 2.2 | 2.2 | 2.2 | 2.2 |
| Packing group: | - | - | - | - |
| Environmental hazards: | No | No | No | No |
| Special precautions for users: | Always transport in secured sealed containers in an upright position. Ensure that people involved in the transport are trained to react in case of an accident. | | | |

SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

| | |
|------------------------------|--|
| EU regulations: | Regulation (EC) No 1907/2006 [REACH]; Regulation (EC) No. 1272/2008 [CLP]. |
| Authorizations | - |
| Restrictions: | - |
| Other EU regulations: | - |

SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006

Page 10 of 10

| AIRBREATH | | | | | |
|---------------|---|----------------|-------------|--------|-----|
| Product code: | - | Date of issue: | 19.12.2016. | Issue: | 1.0 |

| | | |
|--|------------------------------|--|
| | National regulations: | Chemicals Act , Regulations on Hazardous Substance Exposure Limit Values during Work and Biological Limit Values; Regulation on Limit Values of Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products; Act on Sustainable Waste Management and subordinate legislation; Hazardous Materials Transport Act ; European Agreement on International Road Transport of Hazardous Materials (ADR); Regulations concerning the International Carriage of Dangerous Goods by Rail (RID); Regulations on the Transport and Handling of Dangerous Goods in Inland Waterways. |
|--|------------------------------|--|

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16. OTHER INFORMATION

16.1. Indication of changes: -

16.2. Abbreviations and acronyms:
 ATE – *Acute Toxicity Estimate*
 LC₅₀ – the concentration that kills 50% members of a tested population.
 LD₅₀ – the dose that kills 50 % members of a tested population.
 PBT – persistence, bioaccumulation and toxicity.
 vPvB – (very) Persistent, (very) Bioaccumulative.

16.3. Key literature references and sources for data:
 MSDS, ESIS, ICSC, UNEP, IUCLID, IPCS INCHEM, OECD.

16.4. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Classification according to CLP | Classification procedure |
|---------------------------------|---------------------------|
| H280 | According to product type |

16.5. Relevant H statements (number and full text):

| | | |
|----------------------|-----|--|
| H-statements: | 270 | May cause or intensify fire; oxidizer |
| | 280 | Contains gas under pressure; may explode if heated |

16.6. Training advice: -

16.7. Further information: -

APPENDIX:
EXPOSURE SCENARIOS IN ACCORDANCE WITH CHEMICAL SAFETY REPORT

-