

SAFETY DATA SHEET

1 Identification of the substance or preparation and of the company/undertaking

Product Name: **UNIMIX 20**
Datasheet Number: 905573 5. 0. 0
Use of the substance/preparation: Gas for welding
Product Part Number: 905573 (2 m3), 905581 (10 m3)
Head Office:: Wilhelmsen Ships Service AS
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2 Hazards identification

- Odour: Odourless
- Appearance: Compressed gas
- Contact with eyes: Looking into the welding / brazing flame with incorrect or insufficient eye protection may cause arc-eye.
- Contact with skin: Possible frost-bite of affected areas
- Inhalation: Inhalation of fumes formed during welding and or cutting may be harmful.
- Ingestion: Not regarded as a potential route of exposure.

Classification of the substance or mixture

- The product is not classified as hazardous according to directive 1999/45/EEC

Risk Phrases

- Not applicable

Safety Phrases

- Keep container in a well ventilated place (S9)
- Do not breathe vapour/fumes (S23)

3 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases	Symbols
Argon (compressed)	80	7440-37-1	231-147-0	-	-
Carbon dioxide	20	124-38-9	204-696-9	-	-

4 First aid measures

Contact with skin

- May cause frost-bite
- In case of contact with liquid, thaw frosted parts with water. Do not attempt to remove clothing which has stuck to the skin
- Burns should be covered with a clean, dry non-fluffy material

4 First aid measures (....)

- Burns must be treated by a physician.

Contact with eyes

- May cause frost-bite
- If substance has got into eyes, immediately wash out with plenty of water for several minutes
- Obtain immediate medical attention

Ingestion

- Not regarded as a potential route of exposure.

Inhalation

- Remove patient to fresh air
- Apply artificial respiration only if patient is not breathing
- When in doubt or symptoms persist, seek medical attention

General

- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)

Indication of immediate medical attention and special treatment needed

Do not give adrenalin or equivalent medicines.

5 Fire-fighting measures

- Auto-ignition point # deg C at 760 mm Hg
 - Not flammable
 - Keep container(s) exposed to fire cool, by spraying with water
 - Inform Fire Brigade of potential danger of exploding and rocketing cylinders
 - Portable containers should be moved if possible and without risk
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6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

- Shut off source of leak if safe to do so
- In poorly ventilated areas or confined spaces, use an airline respirator or self-contained breathing apparatus

Environmental Precautions

- No special precautions are required for this product

Methods and material for containment and cleaning up

- Shut off source of leak if safe to do so
 - Allow product to evaporate
 - Ventilate area
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7 Handling and storage

Precautions for safe handling

- Use only in well ventilated areas (S51)

Conditions for safe storage, including any incompatibilities

- Keep in a cool, dry, well ventilated place
 - Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 deg C
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8 Exposure controls/personal protection

Control parameters

- TLV (TWA) 5 mg/m³ (Welding fumes)
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8 Exposure controls/personal protection (....)

Exposure controls

- No special requirements

Occupational exposure controls

- In poorly ventilated areas or confined spaces, use an airline respirator or self-contained breathing apparatus
- Wear safety boots when handling cylinders.
- Wear suitable filter lenses when welding / cutting.
- Wear leather gloves, boots and apron



Boots



Gloves



Visor



No Smoking

9 Physical and chemical properties

- Odour: Odourless
 - Appearance: Compressed gas
 - pH - not applicable
 - Boiling point - not known
 - Vapour pressure - not known
 - Vapour density (air = 1) 1.4
 - Melting point - not known
 - Insoluble in water
 - Not flammable
 - Auto-ignition point # deg C at 760 mm Hg
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10 Stability and reactivity

- This article is considered stable under normal conditions
 - Avoid overheating
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11 Toxicological information

Information on toxicological effects

- Non-toxic

Inhalation

- Inhalation of fumes formed during welding and or cutting may be harmful.
- Asphyxiant

Contact with skin

- May cause frost-bite

Contact with eyes

- May cause frost-bite

Ingestion

- Not regarded as a potential route of exposure.

Carcinogenicity

- No evidence of carcinogenic effects
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12 Ecological information

Ecotoxicity

- On available data, substance is not harmful to aquatic life

Bioaccumulation Potential

- Bioaccumulation is insignificant
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12 Ecological information (....)

Mobility in soil

- This substance is volatile
- Insoluble in water

Other Adverse Effects

- Presents no hazard to the environment
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13 Disposal considerations

Waste treatment methods

- Uncontaminated material may be returnable. Contact supplier
 - Disposal should be in accordance with local, state or national legislation
 - No special precautions are required for this product
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14 Transport information



Non-Flammable Compressed Gas

Proper Shipping Name: Compressed gas, n.o.s. (80 % Argon, 20 % Carbondioxide mixture)

Road/Rail (ADR/RID)

Proper Shipping Name:	Compressed gas, n.o.s. (80 % Argon, 20 % Carbondioxide)		
ADR UN No.:	UN1956	ADR Hazard Class:	2.2
ADR Packing Group:	-	ADR subrisk:	-
ADR Flashpoint:	-		

Sea (IMDG)

Proper Shipping Name:	Compressed gas, n.o.s. (80 % Argon, 20 % Carbondioxide mixture)		
IMDG UN No.:	UN1956	IMDG Hazard Class.:	2.2
IMDG Pack Group.:	-	IMDG EmS:	F-C, S-V
IMDG subrisk:	-	IMDG Flashpoint:	-

Air (ICAO/IATA)

Proper Shipping Name:	Compressed gas, n.o.s. (80 % Argon, 20 % Carbondioxide mixture)		
ICAO Un No.:	UN1956	ICAO Hazard Class.:	2.2
ICAO Packing Group.:	-	ICAO subrisk:	-
ICAO Flashpoint:	-		

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	Compressed gas, n.o.s. (80 % Argon, 20 % Carbondioxide mixture)		
Hazardous Material:	80 % Argon, 20 % Carbondioxide		
Hazard Class:	2.2	Identification Number:	UN1956
Product RQ (lbs):	-	DOT subrisk:	-
DOT Flashpoint:	-		

Special precautions for user

- Gas cylinders must be equipped with valve protection caps during transport.
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15 Regulatory information

Classification and labelling

- Counsil Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
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15 Regulatory information (....)

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

- This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)
 - This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.
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16 Other information

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer