

Inergen (40% Ar, 8% CO₂ in N₂)

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: RS-CO2-N2-Ar-01

Issue date: 02/14/2019 Revision date: 09/1/2024 Supersedes: 09/01/2023 Version: 3C

Warning



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

1.1. Product identifier

Trade name : Inergen (40% Ar, 8% CO₂ in N₂)

SDS no : RS-CO2-N2-Ar-01

CAS no. : None. EC no. : None. Index no. : None. REACH no. : None.

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

Relevant identified uses : Industrial and professional use. Extinguishing media.

Uses advised against : Consumer use. Contact your supplier for more information on other uses.

Perform risk assessment prior to use. Uses other than those listed above are not supported,

contact your supplier for more information on other uses.

Attention: These products must not be applied to humans or animals unless they are

expressly designated as medical or medicinal gases!

1.3. Details of the supplier of the safety data sheet

Messer Tehnogas AD Beograd

Banjicki put, 62

RS-11090 Belgrade, Serbia

T +381 11 35 37 200 - F +381 11 35 37 291 postoffice@messer.rs - www.messer.rs

1.4. Emergency telephone number

Emergency telephone number : Poison Control Center, VMA

Crnotravska 17, Belgrade Serbia Tel.: +381(0) 11 360 8440 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Physical hazards Gases under pressure: Compressed gas H280

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS04

Signal word (CLP) : Warning

Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated.

Precautionary statements (CLP)

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

2.3. Other hazards

Asphyxiant in high concentrations. Not classified as PBT or vPvB. The substance/mixture has no endocrine disrupting properties.



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SECTION 3: Composition/information on ingredients

3.1. Substances Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP] ATE, EUH-statements, M-Factors
Nitrogen	CAS no.: 7727-37-9 EC no.: 231-783-9 Index no.: REACH no.: *1	52	Press. Gas (Comp.), H280
Argon	CAS no.: 7440-37-1 EC no.: 231-147-0 Index no.: REACH no.: *1	40	Press. Gas (Comp.), H280
Carbon dioxide	CAS no.: 124-38-9 EC no.: 204-696-9 Index no.: REACH no.: *1	8	Press. Gas (Liq.), H280

Full text of H- and EUH-statements: see section 16

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

SECTION 4: First aid measures

4.1. Description of first aid measures

- Inhalation : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep

victim warm and rested. Maintain an open airway. Call a doctor. Perform cardiopulmonary

resuscitation if breathing stopped.

- Skin contact : Adverse effects not expected from this product.

- Eye contact : Adverse effects not expected from this product. If irritation occurs: Flush eyes with plenty of

water. Remove any contact lenses. Get medical advice / attention.

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

4.2. 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. See section 11.

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

Take first aid measures. Loosen tight clothing, such as a collar, tie or belt. Place the unconscious person in a lateral position. Seek medical attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray or fog.

Product does not burn, use fire control measures appropriate for the surrounding fire.

- Unsuitable extinguishing media : Do not use water jet to extinguish.

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.

^{*1:} Listed in Annex IV / V REACH, exempted from registration.

^{*3:} Registration not required: Substance manufactured or imported < 1t/y.



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5.3. Advice for firefighters

Specific methods : Use fire control measures appropriate for the surrounding fire.

Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position.

Prevent water used in emergency cases from entering sewers and drainage systems.

If possible, stop flow of product.

Use water spray or fog to knock down fire fumes if possible.

Move containers away from the fire area if this can be done without risk.

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

Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire

fighters.

Standard EN 469 - Protective clothing for firefighters. Standard EN 659 - Protective gloves for firefighters.

Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full

face mask.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Act in accordance with local emergency plan.

Try to stop release. Evacuate area.

Ensure adequate air ventilation.

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

accumulation can be dangerous.

Stay upwind.

See section 8 of the SDS for more information on personal protective equipment.

For emergency responders : Wear self-contained breathing apparatus when entering area unless atmosphere is proved

to be safe.

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

See section 5.3 of the SDS for more information.

6.2. Environmental 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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safe use of the product : The product must be handled in accordance with good industrial hygiene and safety

procedures.

Do not eat, drink or smoke while working with the product.

Wash hands after use.

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

Wear personal protective equipment (See section 8). Consider pressure relief device(s) in gas installations.

Ensure the complete gas system was (or is regularily) checked for leaks before use.

Use only properly specified equipment which is suitable for this product, its supply pressure

and temperature.

Contact your gas supplier if in doubt. Avoid suck back of water, acid and alkalis.

Do not breathe gas.

Avoid release of product into work area.



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Safe handling of the gas receptacle

: Refer to supplier's container handling instructions.

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

When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use. If the protection cap is too tight, remove it with adjustable wrench. Never insert sharp objects into the cavities of the cap, this can lead to damage to the valve and leakage. Open valve slowly to avoid pressure shock.

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

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 contaminants particularly oil and water.

Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.

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

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 allow backfeed into the container.

Suck back of water into the container must be prevented.

Do not remove or deface labels provided by the supplier for the identification of the content

7.2. Conditions for safe storage, including any incompatibilities

Observe all regulations and local requirements regarding storage of containers.

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

Container valve guards or caps should be in place.

Containers should be stored in the vertical position and properly secured to prevent them from falling over. Stored containers should be periodically checked for general condition and leakage. Keep container below 50°C in a well ventilated 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Carbon dioxide (124-38-9)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	Carbon dioxide		
IOEL TWA	9000 mg/m³		
IOEL TWA [ppm]	5000 ppm		
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC		
Serbia - Occupational Exposure Limits			
Local name	угљен-диоксид		
OEL TWA	9000 mg/m³		
OEL TWA	5000 ppm		
Remark	ЕУ** − напомена да се ради о хемијским материјама за које су утврђене индикативне граничне вредности изложености према Директиви 2006/15/ЕЗ (друга листа)		
Regulatory reference	ПРАВИЛНИК о превентивним мерама за безбедан и здрав рад при излагању хемијским материјама ("Службени гласник РС", бр. 106/09, 117/17 и 107/21)		



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DNEL (Derived-No Effect Level) : None available.

PNEC (Predicted No-Effect Concentration) : None available.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Systems under pressure should be regularily checked for leakages. Ensure exposure is below occupational exposure limits (where available). Oxygen detectors should be used when asphyxiating gases may be released. Consider the use of a work permit system e.g. for maintenance activities.

8.2.2. Individual protection measures, e.g. 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:

PPE compliant to the recommended EN / ISO standards should be selected.

• Eye/face protection : Wear safety glasses with side shields.

Standard EN 166 - Personal eye-protection - specifications.

· Skin protection

- Other

- Hand protection : Wear working gloves when handling gas containers.

Standard EN 388 - Protective gloves against mechanical risks, performance level 1 or higher. Recommended types include wrist gloves from leather or synthetic material with equivalent performance, fabric gloves, fabric gloves with leather palms.

: Wear safety shoes while handling containers.

Standard EN ISO 20345 - Personal protective equipment - Safety footwear.

Respiratory protection
 Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be

used in oxygen-deficient atmospheres. Self contained breathing apparatus is

recommended, where unknown exposure may be expected, e.g. during maintenance

activities on installation systems.

Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full

face mask.

When indicated by a risk assessment, Respiratory Protective Equipment must be used. The selection of the Respiratory Protective Device (RPD) must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the

selected RPD.

• Thermal hazards : None in addition to the above sections.

8.2.3. Environmental exposure controls

Refer to local regulations for restriction of emissions to the atmosphere.

See section 13 for specific methods for waste gas treatment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

- Physical state at 20°C / 101.3kPa
- Colour
: Gas.
- Colourless.
Odourless.

Melting point / Freezing point : Not applicable for gases and gas mixtures.

Boiling point : Not applicable for gas mixtures.

It is technically not possible to determine the boiling point or range of this mixture.

Component with lowest boiling point: Nitrogen -196 °C

Flammability : Non flammable.

Lower explosion limit : Not available.

Upper explosion limit : Not available.

Flash point : Not applicable for gases and gas mixtures.

Auto-ignition temperature : Non flammable.

Decomposition temperature : Not applicable.

pH : Not applicable for gases and gas mixtures.

Viscosity, kinematic : Not applicable for gases and gas mixtures.



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Water solubility [20°C] : Mixture is partially soluble in water.

Partition coefficient n-octanol/water (Log Kow) : Not available. Vapour pressure [20°C] Not applicable. Vapour pressure [50°C] : Not applicable. Density and/or relative density : Not applicable. Relative vapour density (air=1) : Heavier than air.

Particle characteristics : Not applicable for gases and gas mixtures.

Nanoforms are not relevant for gases and gas mixtures.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosion limits : Non flammable. Oxidising properties : No oxidising properties.

9.2.2. Other safety characteristics

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

around level.

SECTION 10: Stability and reactivity

10.1. Reactivity

Data for mixtures are not available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Avoid moisture in installation systems.

10.5. Incompatible materials

For additional information on compatibility refer to ISO 11114.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not

be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological effects not expected from this product if occupational exposure limit values are **Acute toxicity**

not exceeded.

: No known effects from this product. Skin corrosion/irritation : No known effects from this product. Serious eye damage/irritation : No known effects from this product. Respiratory or skin sensitisation : No known effects from this product. Germ cell mutagenicity : No known effects from this product. Carcinogenicity : No known effects from this product. Toxic for reproduction: Fertility : No known effects from this product. Toxic for reproduction: unborn child : No known effects from this product. STOT-single exposure

: No known effects from this product. STOT-repeated exposure

: Not applicable for gases and gas mixtures. **Aspiration hazard**



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11.2. Information on other hazards

Other information : For more information, see 'EIGA Safety Info 24: Carbon Dioxide, Physiological Hazards' at

www.eiga.eu

Unlike simple asphyxiants, carbon dioxide has the ability to cause death even when normal oxygen levels (20-21%) are maintained. 5% CO₂ has been found to act synergistically to increase the toxicity of certain other gases (CO, NO₂). CO₂ has been shown to enhance the production of carboxy- or met-hemoglobin by these gases possibly due to carbon dioxide's stimulatory effects on the respiratory and circulatory systems.

The substance / mixture has no endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

Assessment : No ecological damage caused by this product.

EC50 48h - Daphnia magna [mg/l] : No data available. EC50 72h - Algae [mg/l] : No data available. LC50 96 h - Fish [mg/l] : No data available.

Carbon dioxide (124-38-9)		
EC50 48h - Daphnia magna [mg/l]	No data available.	
EC50 72h - Algae [mg/l]	No data available.	
LC50 96 h - Fish [mg/l]	No data available.	

Argon (7440-37-1)	
EC50 48h - Daphnia magna [mg/l]	No data available.
EC50 72h - Algae [mg/l]	No data available.
LC50 96 h - Fish [mg/l]	No data available.

Nitrogen (7727-37-9)		
EC50 48h - Daphnia magna [mg/l]	No data available.	
EC50 72h - Algae [mg/l]	No data available.	
LC50 96 h - Fish [mg/l]	No data available.	

12.2. Persistence and degradability

Assessment : No ecological damage caused by this product.

12.3. Bioaccumulative potential

Assessment : No ecological damage caused by this product.

12.4. Mobility in soil

Assessment : No ecological damage caused by this product.

12.5. Results of PBT and vPvB assessment

Assessment : Not classified as PBT or vPvB.

12.6. Endocrine disrupting properties

Assessment : The substance/mixture has no endocrine disrupting properties.

12.7. Other adverse effects

Other adverse effects : No known effects from this product. Effect on the ozone layer : No effect on the ozone layer.

Effect on global warming : Contains greenhouse gases listed in Annex I of EU 2024/573.



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

May be vented to atmosphere in a well ventilated place. Return unused product in original container to supplier.

Refer to the EIGA code of practice Doc.30/21 "Disposal of Gases", downloadable at

http://www.eiga.eu for more guidance on suitable disposal methods.

List of hazardous waste codes (from Commission

Decision 2000/532/EC as amended)

: 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04*.

13.2. Additional information

External treatment and disposal of waste should comply with applicable local and/or national regulations.

SECTION 14: Transport information

14.1. UN number or ID number

In accordance with ADR / RID / IMDG / IATA / ADN

UN-No. : 1956

14.2. UN proper shipping name

Transport by road/rail/inland waterways

(ADR/RID/ADN)

Transport by air (ICAO-TI / IATA-DGR) : Compressed gas, n.o.s. (Nitrogen, Argon)
Transport by sea (IMDG) : COMPRESSED GAS, N.O.S. (Nitrogen, Argon)

14.3. Transport hazard class(es)

Labelling

2.2 : Non flammable, non-toxic gases.

: COMPRESSED GAS, N.O.S. (Nitrogen, Argon)

Transport by road/rail/inland waterways (ADR/RID/ADN)

Class : 2
Classification code : 1A
Hazard identification number : 20

Tunnel Restriction : E - Passage forbidden through tunnels of category E

Transport by air (ICAO-TI / IATA-DGR)

Class / Div. (Sub. risk(s)) : 2.2

Transport by sea (IMDG)

Class / Div. (Sub. risk(s)) : 2.2
Emergency Schedule (EmS) - Fire : F-C
Emergency Schedule (EmS) - Spillage : S-V

14.4. Packing group

Transport by road/rail/inland waterways : Not applicable.

(ADR/RID/ADN)

Transport by air (ICAO-TI / IATA-DGR) : Not applicable.

Transport by sea (IMDG) : Not applicable.

14.5. Environmental hazards

Transport by road/rail/inland waterways : None.

(ADR/RID/ADN)

Transport by air (ICAO-TI / IATA-DGR) : None.
Transport by sea (IMDG) : None.

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14.6. Special precautions for user

Packing Instruction(s)

Transport by road/rail/inland waterways : P200.

(ADR/RID/ADN)

Transport by air (ICAO-TI / IATA-DGR)

Passenger and Cargo Aircraft : 200. Cargo Aircraft only : 200. Transport by sea (IMDG) : P200.

Special transport precautions : 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 there is adequate ventilation. - Ensure that containers are firmly secured. - Ensure 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.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

RS Regulations

Pravilnik o ograničenjima i zabranama proizvodnje, None

stavljanja u promet i korišćenja hemikalija ("Sl. glasnik RS",

br. 105/2013, 52/2017, 21/2019 i 29/2024)

Pravilnik o izvozu i uvozu određenih opasnih hemikalija

("SI. glasnik RS" br. 93/23)

: None.

Pravilnik o Listi opasnih materija i njihovim količinama i kriterijumima za određivanje vrste dokumenta koje izrađuje operater seveso postroienia, odnosno kompleksa ("SI. glasnik RS", br. 41/2010, 51/2015 i 50/2018)

: Not covered.

EU Regulations

Restrictions on use Contains no substance(s) listed on the REACH Candidate List.

Other information, restriction and prohibition

regulations

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the

export and import of hazardous chemicals).

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent

organic pollutants).

: Not covered. Seveso Directive: 2012/18/EU (Seveso III)

15.2. Chemical safety assessment

A CSA does not need to be carried out for this product.



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SECTION 16: Other information

Indication of changes

: Revised safety data sheet in accordance with commission regulation (EU) No 2020/878. In Section 1, the Safety Data Sheet is supplemented with information about relevant identified uses of the substance or mixture and uses advised against.

In Section 4, the Safety Data Sheet is supplemented with information about first aid measures.

In Section 5, the Safety Data Sheet is supplemented with information about hazardous combustion products.

In Section 8, the Safety Data Sheet is supplemented with information about exposure control and personal protection.

In Section 12, the Safety Data Sheet is supplemented with information about other adverse effects.

In Section 13, the Safety Data Sheet is supplemented with information about waste treatment methods.

In Section 15, the Safety Data Sheet is supplemented with regulatory information.

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE - Acute Toxicity Estimate

CAS - Chemical Abstract Service number

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CSA - Chemical Safety Assessment

DNEL - Derived No Effect Levels

EINECS - European Inventory of Existing Commercial Chemical Substances

EC- European Community number

EIGA - European Industrial Gases Association

EN - European Standard

IATA - International Air Transport Association

ICAO - International Civil Aviation Organization

IMDG code - International Maritime Dangerous Goods

IMO - International Maritime Organization

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose 50%

LEL - Lower Explosive Limit

OEL - Occupational exposure limits

PBT - Persistent, Bioaccumulative and Toxic

PNEC - Predicted No Effect Concentration

PPE - Personal Protection Equipment

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

RMM - Risk Management Measures

STOT - RE - Specific Target Organ Toxicity - Repeated Exposure

STOT- SE - Specific Target Organ Toxicity - Single Exposure

STEL - Short Term Exposure Limit

TWA -8-hour total weight average

UEL - Upper explosive limit

UFI - Unique Formula Identifier

UN - United Nations

vPvB - Very Persistent and Very Bioaccumulative

WGK - Water Hazard Class

: Receptacle under pressure.

The hazard of asphyxiation is often overlooked and must be stressed during operator training. For more guidance, refer to EIGA SL 01 "Dangers of Asphyxiation", downloadable at http://www.eiga.eu

Classification in accordance with the procedures and calculation methods of Regulation (EC) 1272/2008 (CLP). Key literature references and sources of data are maintained in EIGA doc 169: 'Classification and Labelling Guide', downloadable at http://www.eiga.eu

Abbreviations and acronyms

Training advice

Further information



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Full text of H- and EUH-statements		
H280	Contains gas under pressure; may explode if heated.	
Press. Gas (Comp.)	Gases under pressure : Compressed gas	
Press. Gas (Liq.)	Gases under pressure : Liquefied gas	

DISCLAIMER OF LIABILITY

 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.

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