

SAFETY DATA SHEET

Difluoromethane (R32)

Public reference document issued by EGO INDUSTRIAL GAS SRL as supplier/distributor. It does not state that EGO is the chemical manufacturer. The regulatory SDS must match the supplied product, batch and destination country and is sent to the buyer before dispatch.

Supplier / distributor	EGO INDUSTRIAL GAS SRL
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name:HFC-32 Article number:HFC32 EC number: 200-839-4

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

No further relevant information available.

1.3. Details of the supplier of the safety data sheet

Supplier / distributor in Romania EGO INDUSTRIAL GAS SRL VAT ID: RO45636173 Calea Dârvarilor nr. 178, Sat Goștilele, Oraș Fundulea, Jud. Călărași, România Website: <https://egolog.ro> Document identifier: EGO-SDS-R32-EN

1.4. Emergency telephone number

European emergency number: 112 (24/7).

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Flam. Category: 1B, Hazard statement code: H221 Flammable gas (GHS version 7) Flam. Category: 1, Hazard statement code: H220 Extremely flammable gas (GHS Version 6) Press. Gas (Liq.)H280Contains gas under pressure; may explode if heated.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008: The substance is classified and labelled according to the CLP regulation. Signal word: Danger
Precautionary statements: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely. P381 In case of leakage, eliminate all ignition sources. P410+P403Protect from sunlight. Store in a well-ventilated place.

SECTION 3: Composition/information on ingredients

Information on ingredients: CAS: 75-10-5 Difluoromethane 100% Flam. Gas 1B, H221 (GHS Version 7) Flam. Gas 1, H220 (GHS Version 6) Press. Gas (Liq.), H280 Identification number(s) EC number: 200-839-4

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Seek immediate medical advice. After inhalation: Take affected persons into fresh air. Keep at rest. At high levels, cardiac arrhythmia may occur.

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Trade name:HFC-32 After skin contact: Immediately wash with water and soap and rinse thoroughly. In cases of frost bites, rinse with plenty of water. Do not remove clothing. After eye contact: Rinse opened eye for several minutes under running water. Information for doctor: Catecholamines such as adrenaline, and other compounds having similar effects, should be reserved for emergencies and then used only with special caution.

4.2 Most important symptoms and effects, both acute and chronic:

Frost bites High concentrations cause asphyxiation. May cause an abnormal heart rhythm and prove suddenly fatal.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture:

Formation of toxic gases is possible during heating or in case of fire. Hydrogen fluoride (HF)

5.3 Advice for firefighters:

Protective equipment: Wear fully protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Stay on the windward side. Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.

6.4 Reference to other sections: See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Waste air is to be released into the atmosphere only via suitable separators. Open and handle receptacle with care. Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities:

Storage Requirements to be met by storerooms and receptacles: Store only in unopened original receptacles. Store in a cool and dry location. Information about storage in one common storage facility: Not required. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacle. Protect from heat and direct sunlight. Maximum storage temperature: 40

7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters No further information available.

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Trade name: HFC-32 Ingredients with limit values that require monitoring at the workplace: CAS: 75-10-5 Difluoromethane WEEL (USA) 1000 ppm DNELs: Inhalative DNEL - general population 750 mg/m³ (long-term exposure) (systemic effects) DNEL - worker 7035 mg/m³ (long-term exposure) (systemic effects) PNECs: PNEC

0.142 mg/l (freshwater) (aqua)

0.534 mg/kg dw (freshwater) (sediment)

1.42 mg/l (intermittent release) (aqua)

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7. Individual protection measures, such as personal protective equipment General protective and hygienic measures: Wash hands before breaks and at the end of work. Do not eat or drink while working. Keep away from tobacco products. Respiratory protection: Wear respirator for organic gases, where leakage may occur. Use suitable respiratory protective device in case of insufficient ventilation. Use respiratory protective device with organic gas cartridge. Hand protection The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Protective gloves To avoid skin problems reduce the wearing of gloves to the required minimum. Material of gloves: Strong material gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Leather Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Eye/face protection Safety glasses Body protection: Protective work clothing * SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information Physical state Liquefied gas Colour: Colourless Odour: Odourless Odour threshold: Not determined. Melting point/freezing point: -136 °C Boiling point or initial boiling point and boiling range -51.7 °C

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Trade name: HFC-32 Flammability Flammable Lower and upper explosion limit Lower explosive limit: 13.8 Vol %

13.8 Vol% (High Pressure Gas Safety Act: Japan)

Upper explosive limit: 29.9 Vol %

29.9 Vol% (High Pressure Gas Safety Act: Japan)

Flash point: Not applicable. Auto-ignition temperature: 530 °C (1018 hPa) Decomposition temperature: No further information available. pH Not determined. Viscosity: Kinematic viscosity Not determined. Dynamic: Not determined. Solubility water: No further information available. 1680 mg / l (25 atmospheric pressure) Partition coefficient n-octanol/water (log value) 0.21 log POW Vapour pressure at 25 °C: 1.69 MPa Density and/or relative density Density at 25 °C: 0.961 g/cm³ (Saturated liquid) Relative density Not determined. Vapour density Not determined. Particle characteristics No further information available.

9.2 Other information:

Form: Liquefied gas Ignition temperature: Not determined. Explosive properties: Not determined. Evaporation rate Not applicable. Information with regard to physical hazard classes Explosives Not applicable Flammable gases Flammable gas. Aerosols Not applicable Oxidising gases Not applicable Gases under pressure Contains gas under pressure; may explode if heated. Flammable liquids Not applicable Flammable solids Not applicable Self-reactive substances and mixtures Not applicable Pyrophoric liquids Not applicable Pyrophoric solids Not applicable Self-heating substances and mixtures Not applicable Substances and mixtures, which emit flammable gases in contact with water Not applicable Oxidising liquids Not applicable Oxidising solids Not applicable Organic peroxides Not applicable Corrosive to metals Not applicable Desensitised explosives Not applicable

SECTION 10: Stability and reactivity

10.1 ReactivityNo further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions:Reacts with alkali and metals.

10.4 Conditions to avoid:No further relevant information available.

10.5 Incompatible materials:Alkali or alkaline earth metals - powdered Al, Zn, Mg, etc.

10.6 Hazardous decomposition products:Poisonous gases/vapours

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Trade name:HFC-32 * SECTION 11: Toxicological information

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

Acute toxicityBased on available data, the classification criteria are not met. LD/LC50 values relevant for classification: CAS: 75-10-5Difluoromethane InhalativeLC0/4h> 520000 ppm (Rat) Skin corrosion/irritation: CAS: 75-10-5Difluoromethane InhalativeCardiac sensitive350000 ppm (Dog) Development 50000 ppm (Rat and rabbit) Serious eye damage/irritation:No further information available. after inhalation:No further information available. Respiratory or skin sensitisation:No further information available. Germ cell mutagenicity:Based on available data, the classification criteria are not met. Carcinogenicity:Based on available data, the classification criteria are not met. Reproductive toxicity:Based on available data, the classification criteria are not met. STOT-single exposure:Based on available data, the classification criteria are not met. STOT-repeated exposure:No further information available. Aspiration hazard:Based on available data, the classification criteria are not met. Other information (about experimental toxicology): Chromosomal Aberration Study in vitro- Negative Mouse Micronucleus Assay in Vivo - Negative Additional toxicological information: Repeated dose toxicityNOAEC (inhalation): 105000 mg/m³ (rat) (OECD 413) CMR effects Mutagenicity: Ames test: negative (OECD 471) In vitro mammalian chromosome aberration test: negative (OECD 473) Mammalian erythrocyte micronucleus test: negative (OECD 474) Toxicity for reproduction: NOAEC (inhalation): 208000 mg/m³ (mouse) (OECD 478; read across) Developmental toxicity: NOAEC (inhalation): 105000 mg/m³ (rat)

11.2 Information on other hazards:

Endocrine disrupting properties: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. * SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: EC50/96 h 142 mg/l (algae) (QSAR) LC50/48 h 652 mg/l (daphnia) (QSAR) LC50/96 h 1507 mg/l (fish) (QSAR)

12.2 Persistence and degradability:

Not easily biodegradable 5% after 28 days (OECD 301 D) Behaviour in environmental systems Components:Half-life in air: 1237 days

12.3 Bioaccumulative potential:

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

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Trade name:HFC-32 Other information Koc = 1.49 - 21-73 (QSAR) log Koc = 0.17 - 1.34 (QSAR)

12.4 Mobility in soil:No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT:Not applicable. vPvB:Not applicable.

12.6 Endocrine disrupting propertiesThe product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects:

Additional ecological information: General notes: Ozone depletion potential(ODP) : 0 Global warming potential(GWP) : 675 / IPCC Fourth Assessment Report (AR4)

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation: Must be specially treated adhering to official regulations. Incineration in an adequate incinerator is recommended. Uncleaned packaging Recommendation:Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number

ADR, IMDG, IATA 3252

14.2 UN proper shipping name:

ADR: 3252 DIFLUOROMETHANE (REFRIGERANT GAS R 32) IMDG, IATA DIFLUOROMETHANE (REFRIGERANT GAS R 32)

14.3 Transport hazard class(es):

ADR Class: 2 Gases. Label: 2.1 IMDG, IATA Class: 2.1 Gases. Label: 2.1

14.4 Packing group:

IMDG, IATA Not applicable

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user: Warning: Gases.

Hazard identification number (Kemler code): 23

14.7 Maritime transport in bulk according to IMO

instruments Not applicable. Transport/Additional information: Avoid direct sunlight. Make sure of no damage, corrosion, leaks on the receptacles. Take necessary measures for preventing cargo shift.

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Trade name:HFC-32 UN "Model Regulation": UN3252, DIFLUOROMETHANE (REFRIGERANT GAS R 32),

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* SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation

This document refers to Regulation (EC) No 1907/2006 (REACH), Regulation (EC) No 1272/2008 (CLP), Regulation (EU) 2020/878 and Regulation (EU) 2024/573. National conditions and permitted use must be checked for the actual product and destination country.

15.2. Chemical safety assessment

The applicable assessment is confirmed against the actual product, batch and supplier data before dispatch.

SECTION 16: Other information

EGO issue 1.0 dated 15.08.2026. Public reference document issued by EGO INDUSTRIAL GAS SRL as supplier/distributor. It does not state that EGO is the chemical manufacturer and does not replace the regulatory SDS for the product and batch actually supplied. The current regulatory SDS is sent to the buyer before dispatch. Main abbreviations: ADR, ADN, IMDG, IATA, CLP, REACH, PBT, vPvB, DNEL, PNEC.