

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Reference number: 101302001 Issue date: 2/6/2024 Version: 01.0

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

#### 1.1. Product identifier

Product form : Substance

: ISOBUTANE (AEROSOL) Name

EC-No. : 200-857-2 CAS-No. : 75-28-5 : 01-2119485395 REACH registration No. Product code 101302001

Synonyms Novexpans isobutane; NovaSpray isobutane

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Blowing agent

> Aerosol jet functional fluids

Title	Use descriptors
Use as a propellant inl aerosol products (ES Ref.: SE 1)	SU3, PC19, PROC1, PROC2, PROC3, PROC8b, PROC9, PROC12, ERC4
Use of blowing agents in manufacture of foam (ES Ref.: SE2)	SU3, PROC1, PROC2, PROC3, PROC8b, PROC9, PROC12, ERC4
functional fluids (ES Ref.: SE3)	SU3, PC19, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, ERC7

Full text of use descriptors: see section 16

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Supplier

Dehon Service SAS 26 Avenue du Petit Parc 94683 VINCENNES Cedex

France

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Climalife Kft Budepesta sucurcala Bucuresti Romania

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Other

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T 00 49 2150 7073 0, F 00 49 2150 7073 17

ContactFDS@climalife.dehon.com

Dehon Service Belgium s.a/n.v. Avenue Carton de Wiart, 79

Other

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Hungary

T (36) 23 431 660, F (36) 23 431 661 ContactFDS@climalife.dehon.com

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Other

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Other

Dehon Service Nerderland B.V. Van Konijnenburgweg 84

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Other Friogas sa

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Other

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Other

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Switzerland

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#### 1.4. Emergency telephone number

Emergency number : +33 (0) 1 72 11 00 03

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Aerosol 1 H222;H229

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

Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

Signal word (CLP) : Danger

Hazard statements (CLP) : H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C, 122

°F.

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#### 2.3. Other hazards

Other hazards which do not result in classification : May cause suffocation by reducing oxygen available for breathing. Contact with the liquid

the may cause cold burns/frostbite.

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Isobutane (containing < 0,1 % 1,3-butadiene (203-450-8)) (75-28-5)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Isobutane (containing < 0,1 % 1,3-butadiene (203-450-8)) (75-28-5)

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Name : ISOBUTANE (AEROSOL)

CAS-No. : 75-28-5 EC-No. : 200-857-2

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Isobutane (containing < 0,1 % 1,3-butadiene (203-450-8))	CAS-No.: 75-28-5 EC-No.: 200-857-2 EC Index-No.: 601-004-00-0 REACH-no: 01-2119485395- 27	> 95	Flam. Gas 1A, H220 Press. Gas (Liq.), H280

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

#### 3.2. Mixtures

Not applicable

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact : In the event of contact with the liquid: treat resulting frostbite as a burn. Wash skin

thoroughly with mild soap and water. Take off immediately all contaminated clothing. If skin burns appear, call a doctor immediately.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes

minimum).

First-aid measures after ingestion : Rinse mouth out with water. Do NOT induce vomiting. Immediately call a POISON

CENTER/doctor.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : Dizziness, headaches, nausea.

Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Tingling sensation. Lacrimation. Rednesses.

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

No additional information available

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#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Carbon dioxide. Foam. Dry powder.

Unsuitable extinguishing media : Strong water jet.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable gas. Heating will cause a rise in pressure with a risk of bursting. The

vapours are denser than air and may travel along the ground. Distance ignition possible.

#### 5.3. Advice for firefighters

Firefighting instructions : Cool down the containers exposed to heat with a water spray. Close the valve if possible.

Protection during firefighting : Impermeable boots and protective equipment. Self-contained breathing apparatus.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop the leak. Evacuate the danger area. Avoid contact with skin and eyes. Do not breathe smoke. Only qualified personnel equipped with suitable protective equipment may

intervene. Remove all sources of ignition.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.

In case of important spillage : Local evacuation is necessary (for people in close proximity to

the spillage area).

#### 6.2. Environmental precautions

Control the vapours with a fine water spray.

#### 6.3. Methods and material for containment and cleaning up

For containment : Ventilate spillage area.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Use non-sparking tools. Earth the equipment

used to transfer the product. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with

skin and eyes.

Hygiene measures : Always wash hands after handling the product. Do not drink, eat or smoke in the workplace.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep away from ignition sources. Store in original container.

Incompatible products : Oxidizing materials. Oxidizing materials. Strong bases.

Packaging materials : Carbon steel.

#### 7.3. Specific end use(s)

No additional information available

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#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

Isobutane (containing < 0,1 % 1,3-butadiene (203-450-8)) (75-28-5)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	1450 mg/m³
	600 ppm
IOEL STEL	1810 mg/m³
	750 ppm

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No additional information available

#### 8.2.2. Personal protection equipment

#### 8.2.2.1. Eye and face protection

#### Eye protection:

Safety glasses with side shields

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Protective non-flammable and resistant to chemical penetration clothing

#### Hand protection:

Nitrile-rubber protective gloves

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

If the occupational exposure limit is exceeded: Gas mask with filter type AX. In a confined area: Self-contained breathing apparatus

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

No additional information available

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Gas
Colour : Colourless.
Molecular mass : 58 g/mol

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Odour : Hydrocarbon-like.
Odour threshold : Not available
Melting point : -159 °C
Freezing point : Not applicable
Boiling point : -11.7 °C

Flammability : Extremely flammable gas.

Explosive properties : Not explosive. : Non oxidizing. Oxidising properties Lower explosion limit : 1.8 vol % Upper explosion limit : 8.4 vol % : -87 °C Flash point Auto-ignition temperature 460 °C Decomposition temperature : Not available рΗ : Not applicable Viscosity, kinematic : 269.643 mm<sup>2</sup>/s

Viscosity, dynamic : 0.151 Pa·s (25°C)
Solubility : Insoluble in water.
Water: 0.008 %

Partition coefficient n-octanol/water (Log Kow) : 2.88

Vapour pressure : 2.2 bar (20 °C)
Vapour pressure at 50 °C : Not available
Critical pressure : 36.29 bar
Density : 0.56 g/cm³ (20 °C)
Relative density : Not applicable
Relative vapour density at 20 °C : Not available
Particle characteristics : Not applicable

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Critical temperature : 134.7 °C

9.2.2. Other safety characteristics

Gas group : Press. Gas (Liq.)

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

No information available.

#### 10.4. Conditions to avoid

May explode or ignite : on contact with incompatible materials.

#### 10.5. Incompatible materials

Oxidizing materials. Combustible materials. Strong bases.

#### 10.6. Hazardous decomposition products

On thermal decomposition (pyrolysis), releases: Carbon oxides (CO, CO2).

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#### **SECTION 11: Toxicological information**

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified
Additional information : Asphyxiating

Isobutane (containing < 0,1 % 1,3-butadiene (203-450-8)) (75-28-5)	
LC50 Inhalation - Rat	658 mg/l/4h
LC50 Inhalation - Rat [ppm]	260000 ppm (Mouse, Male, 4 h)

Skin corrosion/irritation : Not classified

Additional information : Contact with the liquid the may cause cold burns/frostbite

Serious eye damage/irritation : Not classified

Additional information : Contact with the liquefied gas may cause severe ocular lesions

Respiratory or skin sensitisation : No sensitizing effect known

Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

#### Isobutane (containing < 0,1 % 1,3-butadiene (203-450-8)) (75-28-5)

NOAEC (inhalation, rat, 28 days) 21.934 mg/l (Rat (Female, Male), Inhalation (Gas), daily)

Aspiration hazard : Not applicable

#### **ISOBUTANE (AEROSOL) (75-28-5)**

Viscosity, kinematic 269.643 mm²/s

#### Isobutane (containing < 0,1 % 1,3-butadiene (203-450-8)) (75-28-5)

Viscosity, kinematic 269.643 mm²/s

#### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

#### 11.2.2. Other information

No additional information available

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

Isobutane (containing < 0,1 % 1,3-butadiene (203-450-8)) (75-28-5)	
LC50 - Fish [1]	27.98 mg/l (estimated, QSAR)
EC50 - Crustacea [1]	16.33 mg/l (estimated, QSAR)
EC50 72h - Algae [1]	8.57 mg/l (estimated, QSAR)

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#### 12.2. Persistence and degradability

#### **ISOBUTANE (AEROSOL) (75-28-5)**

Persistence and degradability Rapidly degradable

#### Isobutane (containing < 0,1 % 1,3-butadiene (203-450-8)) (75-28-5)

Persistence and degradability {0} % biodegradation after {1} days.

#### 12.3. Bioaccumulative potential

#### **ISOBUTANE (AEROSOL) (75-28-5)**

Partition coefficient n-octanol/water (Log Kow) 2.88

#### Isobutane (containing < 0,1 % 1,3-butadiene (203-450-8)) (75-28-5)

Partition coefficient n-octanol/water (Log Kow) 2.88

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Isobutane (containing < 0,1 % 1,3-butadiene (203-450-8)) (75-28-5)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Isobutane (containing < 0,1 % 1,3-butadiene (203-450-8)) (75-28-5)

#### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

#### 12.7. Other adverse effects

Additional information

: Global warming potential (GWP) 3

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods Additional information

- : Refer to manufacturer or supplier for information on recovery or recycling.
- The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

#### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name			
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS

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ADR	IMDG	IATA	RID
Transport document description			
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1	UN 1950 AEROSOLS, 2.1
14.3. Transport hazard class(e	es)		
2.1	2.1	2.1	2.1
2	2	2	2
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information availa	able		

#### 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) : 5F

Special provisions (ADR) : 190, 327, 344, 625

Limited quantities (ADR) : 1I
Transport category (ADR) : 2
Tunnel restriction code (ADR) : D

#### Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959

Limited quantities (IMDG): SP277EmS-No. (Fire): F-DEmS-No. (Spillage): S-USegregation (IMDG): SG69

#### Air transport

PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203
CAO max net quantity (IATA) : 150kg

Special provisions (IATA) : A145, A167, A802

#### Rail transport

Classification code (RID) : 5F

Special provisions (RID) : 190, 327, 344, 625

Limited quantities (RID) : 1L

Transport category (RID) : 2

Colis express (express parcels) (RID) : CE2

Hazard identification number (RID) : 23

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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#### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
40.	Isobutane (containing < 0,1 % 1,3-butadiene (203-450-8))

#### **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Not listed on the PIC list (Regulation EU 649/2012)

#### **POP Regulation (Persistent Organic Pollutants)**

Not listed on the POP list (Regulation EU 2019/1021)

#### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

#### **Dual-Use Regulation (428/2009)**

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No additional information available

#### **SECTION 16: Other information**

Full text of H- and EUH-statements:	
Aerosol 1	Aerosol, Category 1
Flam. Gas 1A	Flammable gases, Category 1A
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
Press. Gas (Liq.)	Gases under pressure : Liquefied gas

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Full text of use descriptors	
ERC4	Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
ERC7	Use of functional fluid at industrial site
PC19	Intermediate
PROC1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions
PROC12	Use of blowing agents in manufacture of foam
PROC2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC4	Chemical production where opportunity for exposure arises
PROC8a	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
SU3	Industrial uses: Uses of substances as such or in preparations at industrial sites

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.