

Safety data sheet

Page: 1/19

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 09.08.2023

Version: 3.0

Date previous version: 28.04.2023

Previous version: 2.0

Date / First version: 05.09.2022

Product: **Isobutene pure**

(ID no. 30034782/SDS_GEN_DE/EN)

Date of print 21.10.2025

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

1.1. Product identifier

Isobutene pure

Chemical name: 2-methylpropene

CAS Number: 115-11-7

REACH registration number: 01-2119456616-32-0005, 01-2119456616-32-0004, 01-2119456616-32-0067, 01-2119456616-32

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

Relevant identified uses: Chemical, Intermediate, Monomer.

Recommended use: Chemical

For the detailed identified uses of the product see appendix of the safety data sheet.

1.3. Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Petrochemicals

Telephone: +49 621 60-42151

E-mail address: sds-petrochemicals@basf.com

1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 09.08.2023

Version: 3.0

Date previous version: 28.04.2023

Previous version: 2.0

Date / First version: 05.09.2022

Product: **Isobutene pure**

(ID no. 30034782/SDS_GEN_DE/EN)

Date of print 21.10.2025

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Flam. Gas 1

H220 Extremely flammable gas.

Press. Gas Liquefied gas

H280 Contains gas under pressure; may explode if heated.

According to BASF current knowledge and application of the criteria given in Annex I of Regulation (EC) No. 1272/2008, the following classification exceeding the classification given in Regulation (EC) No 1272/2008, Annex VI, Table 3.1 is required.

Press. Gas Compressed gas

Flam. Gas 1A

For the classifications 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]

Pictogram:



Signal Word:

Danger

Hazard Statement:

H280 Contains gas under pressure; may explode if heated.

H220 Extremely flammable gas.

Precautionary Statements (Prevention):

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Precautionary Statements (Response):

P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

P381 In case of leakage, eliminate all ignition sources.

Precautionary Statements (Storage):

P410 + P403 Protect from sunlight. Store in a well-ventilated place.

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture. See section 12 - Results of PBT and vPvB assessment.

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 09.08.2023

Version: 3.0

Date previous version: 28.04.2023

Previous version: 2.0

Date / First version: 05.09.2022

Product: **Isobutene pure**

(ID no. 30034782/SDS_GEN_DE/EN)

Date of print 21.10.2025

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Chemical nature

2-methylpropene

Content (W/W): $\geq 99,85\%$

CAS Number: 115-11-7

EC-Number: 204-066-3

INDEX-Number: 601-012-00-4

Flam. Gas 1

Press. Gas Liquef. Gas

H280, H220

Regulatory relevant ingredients

No particular hazards known.

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

3.2. Mixtures

Not applicable

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

| Remove contaminated clothing.

If inhaled:

| Keep patient calm, remove to fresh air.

On skin contact:

| Wash thoroughly with soap and water

On contact with eyes:

| Wash affected eyes for at least 15 minutes under running water with eyelids held open.

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 09.08.2023

Version: 3.0

Date previous version: 28.04.2023

Previous version: 2.0

Date / First version: 05.09.2022

Product: **Isobutene pure**

(ID no. 30034782/SDS_GEN_DE/EN)

Date of print 21.10.2025

On ingestion:

| Rinse mouth and then drink 200-300 ml of water.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

| Hazards: (Further) symptoms and / or effects are not known so far

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

| Treatment: Symptomatic treatment (decontamination, vital functions).

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:
carbon dioxide, dry powder

Unsuitable extinguishing media for safety reasons:
foam, water spray, water jet

Additional information:
Use extinguishing measures to suit surroundings.

5.2. Special hazards arising from the substance or mixture

| Advice: Highly flammable. Vapours may form explosive mixture with air.

Advice: Shut off or stop released substance/product under safe conditions. Cool endangered containers with water-spray.

| Advice: If product is heated above decomposition temperature acrid smoke and fumes will be released. Burning produces harmful and toxic fumes.

5.3. Advice for fire-fighters

Special protective equipment:
| Wear a self-contained breathing apparatus. Special protective equipment for firefighters

Further information:
Do not put fire out unless flow feeding it can be safely stopped. The substance/product forms flammable mixtures with air. Evacuate area of all unnecessary personnel. Fight fire from maximum distance.

Extend fire extinguishing measures to the surroundings.

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 09.08.2023

Version: 3.0

Date previous version: 28.04.2023

Previous version: 2.0

Date / First version: 05.09.2022

Product: **Isobutene pure**

(ID no. 30034782/SDS_GEN_DE/EN)

Date of print 21.10.2025

SECTION 6: Accidental Release Measures

Shut off or stop source of leak. Shut off or stop released substance/product under safe conditions.

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with the skin, eyes and clothing. Avoid all sources of ignition: heat, sparks, open flame.
Wear respiratory protection if ventilation is inadequate.

Keep people away and stay on the upwind side.

Handle in accordance with good industrial hygiene and safety practice.

6.2. Environmental precautions

Contain contaminated water/firefighting water.

6.3. Methods and material for containment and cleaning up

Ensure adequate ventilation.

Suppress gases/vapours/mists with water spray jet.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Vapours may form explosive mixture with air.

Electrical devices must meet the specified temperature class.

Temperature class: T1 (Autoignition temperature > 450 °C).

7.2. Conditions for safe storage, including any incompatibilities

No applicable information available.

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 09.08.2023

Version: 3.0

Date previous version: 28.04.2023

Previous version: 2.0

Date / First version: 05.09.2022

Product: **Isobutene pure**

(ID no. 30034782/SDS_GEN_DE/EN)

Date of print 21.10.2025

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.

Storage class according to TRGS 510 (originally VCI, Germany): (2A) Gases (except aerosol dispensers and lighters)

7.3. Specific end use(s)

See exposure scenario(s) in the attachment to this safety data sheet.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

No substance specific occupational exposure limits known.

PNEC

No PNEC derived, substance is a gas

DNEL

worker:

Long-term exposure- systemic effects, Inhalation: 769 mg/m³

worker:

Long-term exposure - local effects, Inhalation: 1530 mg/m³

consumer:

Long-term exposure- systemic effects, Inhalation: 163 mg/m³

consumer:

Long-term exposure - local effects, Inhalation: 918 mg/m³

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Respiratory protection required in case of exceptional circumstances (e.g.: accidental release, exceeding the occupational exposure limit) Suitable respiratory protection: e.g. Self-contained breathing apparatus.

Hand protection:

When there is a risk of frostbite from escaping gas, use thermally insulated gloves (EN 511).

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 09.08.2023

Version: 3.0

Date previous version: 28.04.2023

Previous version: 2.0

Date / First version: 05.09.2022

Product: **Isobutene pure**

(ID no. 30034782/SDS_GEN_DE/EN)

Date of print 21.10.2025

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):
fluoroelastomer (FKM) - 0.7 mm coating thickness

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)
nitrile rubber (NBR) - 0.4 mm coating thickness

Manufacturer's directions for use should be observed because of great diversity of types.

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Avoid contact with the skin, eyes and clothing. Ensure adequate ventilation. Avoid inhalation of vapour. At the end of the shift the skin should be cleaned and skin-care agents applied. Remove contaminated clothing immediately and dispose of safely. Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

Suitable risk management measures should be in place.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of matter:	gaseous
Form:	pressurised liquified gas
Colour:	colourless
Odour:	benzene-like
Odour threshold:	
	not determined
Melting point:	-140,7 °C (1.013 hPa) Literature data.

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 09.08.2023

Version: 3.0

Date previous version: 28.04.2023

Previous version: 2.0

Date / First version: 05.09.2022

Product: **Isobutene pure**

(ID no. 30034782/SDS_GEN_DE/EN)

Date of print 21.10.2025

Boiling point:	-6,9 °C (1.013 hPa) Literature data.	
Flammability:	Extremely flammable.	(other)
Lower explosion limit:	1,8 %(V) Literature data.	(air)
Upper explosion limit:	9,6 %(V) Literature data.	
Flash point:	-76 °C	
Auto-ignition temperature:	465 °C Literature data.	
Self-ignition temperature:	Temperature: 465 °C	Test type: Self-ignition at high temperatures.
Thermal decomposition:	No decomposition if correctly stored and handled.	
pH value:	The substance does not dissociate.	
Viscosity, kinematic:	0,27 mm ² /s (20 °C)	
Viscosity, dynamic:	0,16 mPa.s (20 °C)	
Thixotropy:	not thixotropic	
Solubility in water:	Literature data. 263 mg/l (25 °C)	(other)
Solubility (qualitative) solvent(s):	organic solvents soluble	
Partitioning coefficient n-octanol/water (log Kow):	2,34 (25 °C) Literature data.	(calculated)
Vapour pressure:	Study scientifically not justified.	
Relative density:	0,59 (25 °C) Literature data.	
Density:	0,59 g/cm ³ (25 °C) Literature data.	
Relative vapour density (air):	2 Literature data.	

Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form. -

9.2. Other information

Information with regard to physical hazard classes

Explosives

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 09.08.2023

Version: 3.0

Date previous version: 28.04.2023

Previous version: 2.0

Date / First version: 05.09.2022

Product: **Isobutene pure**

(ID no. 30034782/SDS_GEN_DE/EN)

Date of print 21.10.2025

Explosion hazard: Based on the chemical structure there is no indication of explosive properties.

Impact sensitivity: Study scientifically not justified.

Oxidizing properties

Fire promoting properties: Based on its structural properties the product is not classified as oxidizing.

Gases under pressure

Critical temperature/pressure: 144,7 °C
Literature data.

Pyrophoric properties

Self-ignition temperature: Test type: Spontaneous self-ignition at room-temperature.

not self-igniting

Self-heating substances and mixtures

Self heating ability: Study scientifically not justified.

Substances and mixtures, which emit flammable gases in contact with water

Formation of flammable gases:
Forms no flammable gases in the presence of water.

Corrosion to metals

Corrosive effects to metal are not anticipated.

Other safety characteristics

Radioactivity: not radioactive for transport purposes

pKA:

The substance does not dissociate.

Adsorption/water - soil: KOC: 117,5; log KOC: 2,07

(calculated)

Surface tension:

Based on chemical structure, surface activity is not to be expected.

Molar mass:

56,11 g/mol

Evaporation rate:

Value can be approximated from Henry's Law Constant or vapor pressure.

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 09.08.2023

Version: 3.0

Date previous version: 28.04.2023

Previous version: 2.0

Date / First version: 05.09.2022

Product: **Isobutene pure**

(ID no. 30034782/SDS_GEN_DE/EN)

Date of print 21.10.2025

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:	Corrosive effects to metal are not anticipated.
Formation of flammable gases:	Remarks: Forms no flammable gases in the presence of water.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Peroxides:	The product/the substance has not a tendency towards the formation of peroxide.
------------	---------------------------------------------------------------------------------

10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

10.4. Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame.

10.5. Incompatible materials

Substances to avoid:
strong oxidizing agents

10.6. Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

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

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic by inhalation.

Experimental/calculated data:

(oral): Study technically not feasible.

LC50 rat (by inhalation): > 23 mg/l > 10000 ppm 4,00 h (OECD Guideline 403)

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 09.08.2023

Version: 3.0

Date previous version: 28.04.2023

Previous version: 2.0

Date / First version: 05.09.2022

Product: **Isobutene pure**

(ID no. 30034782/SDS_GEN_DE/EN)

Date of print 21.10.2025

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. A gas was tested.

(dermal): Study technically not feasible.

Irritation

Assessment of irritating effects:

Contact with liquid may cause frostbite. The substance is gaseous at room temperature and pressure. Testing for this particular endpoint is technically not feasible and/or this endpoint does not represent a relevant exposure scenario.

Experimental/calculated data:

Skin corrosion/irritation

: Study technically not feasible.

Serious eye damage/irritation

: Study technically not feasible.

Respiratory/Skin sensitization

Assessment of sensitization:

No data available. The substance is gaseous at room temperature and pressure. Testing for this particular endpoint is technically not feasible and/or this endpoint does not represent a relevant exposure scenario.

Experimental/calculated data:

Study technically not feasible.

Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. No mutagenic effect was found in various tests with mammalian cell culture and mammals.

Carcinogenicity

Assessment of carcinogenicity:

Results from a number of long-term carcinogenicity studies and short-term tests are available. Taking into account all of the information, there is no indication that the substance itself is carcinogenic.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Developmental toxicity

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 09.08.2023

Version: 3.0

Date previous version: 28.04.2023

Previous version: 2.0

Date / First version: 05.09.2022

Product: **Isobutene pure**

(ID no. 30034782/SDS_GEN_DE/EN)

Date of print 21.10.2025

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

No substance-specific organotoxicity was observed after repeated administration to animals.

Aspiration hazard

not applicable

Interactive effects

No data available.

11.2. Information on other hazards

Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

At the present state of knowledge, no negative ecological effects are expected.

Toxicity to fish:

LC50 (96 h) 22 mg/l, Fish (calculated)

The product has not been tested. The statement has been derived from the structure of the product.

Aquatic invertebrates:

EC50 (48 h) 16 mg/l, daphnia (calculated)

The product has not been tested. The statement has been derived from the structure of the product.

Aquatic plants:

EC10 (96 h) 3 mg/l, algae (calculated)

The product has not been tested. The statement has been derived from the structure of the product.

Microorganisms/Effect on activated sludge:

No data available.

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 09.08.2023

Version: 3.0

Date previous version: 28.04.2023

Previous version: 2.0

Date / First version: 05.09.2022

Product: **Isobutene pure**

(ID no. 30034782/SDS_GEN_DE/EN)

Date of print 21.10.2025

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

No data available.

Assessment of terrestrial toxicity:

No data available concerning terrestrial toxicity.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Product is expected to be readily biodegradable. The product is highly volatile and can be eliminated from water by stripping.

Elimination information:

50 % (1,91 d) (calculated) (aerobic)

The product has not been tested. The statement has been derived from the structure of the product.

Assessment of stability in water:

According to structural properties, hydrolysis is not expected/probable.

Information on Stability in Water (Hydrolysis):

No data available.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow).

Bioaccumulation potential:

No data available.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: The substance will rapidly evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is not expected.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 09.08.2023

Version: 3.0

Date previous version: 28.04.2023

Previous version: 2.0

Date / First version: 05.09.2022

Product: **Isobutene pure**

(ID no. 30034782/SDS_GEN_DE/EN)

Date of print 21.10.2025

(Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative). Self classification

12.6. Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

12.7. Other adverse effects

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Dispose of in accordance with national, state and local regulations.

Contaminated packaging:

Disposal must be made according to official regulations.

SECTION 14: Transport Information

Land transport

ADR

UN number or ID number: UN1055

UN proper shipping name: ISOBUTYLENE

Transport hazard class(es): 2.1

Packing group: Not applicable

Environmental hazards: no

Special precautions for user: Tunnel code: B/D

RID

UN number or ID number: UN1055

UN proper shipping name: ISOBUTYLENE

Transport hazard class(es): 2.1, 13

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 09.08.2023

Version: 3.0

Date previous version: 28.04.2023

Previous version: 2.0

Date / First version: 05.09.2022

Product: **Isobutene pure**

(ID no. 30034782/SDS_GEN_DE/EN)

Date of print 21.10.2025

Packing group:	Not applicable
Environmental hazards:	no
Special precautions for user:	Shunting label: 13

Inland waterway transport

ADN

UN number or ID number:	UN1055
UN proper shipping name:	ISOBUTYLENE

Transport hazard class(es):	2.1
Packing group:	Not applicable
Environmental hazards:	no
Special precautions for user:	None known

Transport in inland waterway vessel

UN number or ID number:	UN1055
UN proper shipping name:	ISOBUTYLENE

Transport hazard class(es):	2.1
Packing group:	Not applicable
Environmental hazards:	no
Type of inland waterway vessel:	G
Cargo tank design:	1
Cargo tank type:	1

Sea transport

IMDG

UN number or ID number:	UN 1055
UN proper shipping name:	ISOBUTYLENE

Transport hazard class(es):	2.1
Packing group:	Not applicable
Environmental hazards:	no
Special precautions for user:	Marine pollutant: NO EmS: F-D; S-U

Air transport

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 09.08.2023

Version: 3.0

Date previous version: 28.04.2023

Previous version: 2.0

Date / First version: 05.09.2022

Product: **Isobutene pure**

(ID no. 30034782/SDS_GEN_DE/EN)

Date of print 21.10.2025

IATA/ICAO

UN number or ID number: UN 1055

UN proper shipping name: ISOBUTYLENE

Transport hazard class(es): 2.1

Packing group: Not applicable

Environmental hazards: No Mark as dangerous for the environment is needed

Special precautions for user: None known

14.1. UN number or ID number

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

SECTION 15: Regulatory Information

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

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 40

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 09.08.2023

Version: 3.0

Date previous version: 28.04.2023

Previous version: 2.0

Date / First version: 05.09.2022

Product: **Isobutene pure**

(ID no. 30034782/SDS_GEN_DE/EN)

Date of print 21.10.2025

Hazardous Incident Ordinance (Germany):

List entry in regulation: 1.2.2

Listed in above regulation: Liquefied flammable gases, Category 1 or 2 (including LPG) and natural gas

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

List entry in regulation: P2

Listed in above regulation: Liquefied flammable gases, Category 1 or 2 (including LPG) and natural gas

Classification according to 'TA-Luft' (Germany):

5.2.5: Organic gases, general guidance

Water hazard class (§6 AwSV para.4 (Legal binding announcement of the substance in the Federal Gazette)): (nwg) Not water polluting. ID-No.: 1193

Law on the Protection of Working Youth

German Regulation TA Luft (Technical Instruction on Air Quality Control, i.e. first Directive to the Federal Immission Control Ordinance)

15.2. Chemical Safety Assessment

Chemical Safety Assessment performed

SECTION 16: Other Information

Assessment of the hazard classes according to UN GHS criteria (most recent version)

Flam. Gas 1A

Press. Gas Liquefied gas

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Flam. Gas

Flammable gases

Press. Gas

Gases under pressure

H280

Contains gas under pressure; may explode if heated.

H220

Extremely flammable gas.

Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.

ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland

waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract

Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German

national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective

concentration median for 50% of the population. EC = European Community. EN = European Standards.

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 09.08.2023

Version: 3.0

Date previous version: 28.04.2023

Previous version: 2.0

Date / First version: 05.09.2022

Product: **Isobutene pure**

(ID no. 30034782/SDS_GEN_DE/EN)

Date of print 21.10.2025

IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 09.08.2023

Version: 3.0

Date previous version: 28.04.2023

Previous version: 2.0

Date / First version: 05.09.2022

Product: **Isobutene pure**

(ID no. 30034782/SDS_GEN_DE/EN)

Date of print 21.10.2025

Annex: Exposure Scenarios

Index

1.

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
	As no toxicological hazard was identified no human related (worker/consumer) exposure assessment and risk characterization was performed.
