

**2-Methyl-2-Butene**

Version 2.4

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2026-02-19	MSDS number:
2.4	2026-08-03	100000013905	Date of first issue: 2009-10-27	

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : 2-Methyl-2-Butene

Material : 1083996, 1021754, 1021753, 1021755, 1034801, 1030212

Product code : 000000000000000000 000000000000000000

Recommended use of the chemical and restrictions on use

Recommended use : Chemical intermediate

Manufacturer or supplier's details

Address : Chevron Phillips Chemical Company LP
Specialty Chemicals
9500 Lakeside Blvd.
The Woodlands, TX 77381

Address : CHEVRON PHILLIPS CHEMICALS ASIA PTE. LTD.
C/O DONG WOO CORPORATION
#B-2601, JEONGJAIL-RO,
BUNDANG-GU, SEONGNAMI-SI,
GYEONGGI-DO, 13557
SOUTH KOREA
Telephone no.: +612-9186-1132

Emergency telephone:**Health:**

866.442.9628 (North America)

1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090

Mexico CHEMTREC 01-800-681-9531 (24 hours)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Argentina: +(54)-1159839431

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)

Belgium: 070 245 245 (24 hours/day, 7 days/week)

Bulgaria: +359 2 9154 233

Croatia: +3851 2348 342 (24 hours/day, 7 days/week)

Cyprus: 1401

Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402

Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212

Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Finland: 0800 147 111 09 471 977 (24 hours/day)

France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)



2-Methyl-2-Butene

Version 2.4

Revision Date 2026-08-03

MSDS number:

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2026-02-19
2.4	2026-08-03	100000013905	Date of first issue: 2009-10-27

Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Greece: (0030) 2107793777 (24 hours/day, 7 days/week)
 Hungary: +36-80-201-199 (24 hours/day, 7 days/week)
 Iceland: 543 2222 (24 hours/day, 7 days/week)
 Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Italy: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME – Policlinico “Agostino Gemelli”, Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME – Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico “Umberto I” Tel. +39 06 4997 8000; POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera “Antonio Cardarelli” Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA – IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO – Azienda Ospedaliera “Papa Giovanni XXIII” Tel. 800 883 300; POISON CENTER VERONA – Azienda Ospedaliera Universitaria integrata Tel. 800 011 858;
 Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.)
 Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Lithuania: +370 (85) 2362052
 Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)
 Malta: +356 2395 2000
 The Netherlands: NVIC: +31 (0)88 755 8000
 Norway: 22 59 13 00 (24 hours/day, 7 days/week)
 Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Portugal: CIAV phone number: +351 800 250 250
 Romania: +40213183606
 Slovakia: +421 2 5477 4166
 Slovenia: Phone number: 112
 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week)
 Sweden: 112 – ask for Poisons Information

Organization that prepared the SDS : Product Safety and Toxicology Group
 E-mail address : SDS@CPChem.com
 Website : www.CPChem.com
 Appointees : 회사명: 리이치 24 시코리아(주).
 주소: 서울시 서초구 헌릉로 7,
 외국기업창업지원연구센터
 (IKP) 908-909호
 전화: +82-1067838981

2-Methyl-2-Butene

Version 2.4

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2026-02-19	MSDS number:
2.4	2026-08-03	100000013905	Date of first issue: 2009-10-27	

2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable liquids	:	Category 2
Acute toxicity (Oral)	:	Category 4
Skin corrosion/irritation	:	Category 2
Germ cell mutagenicity	:	Category 2
Carcinogenicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3 (Narcotic effects)
Aspiration hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 2

GHS label elements

Hazard pictograms	:	   
-------------------	---	--

Signal Word	:	Danger
-------------	---	--------

Hazard Statements	:	H225 Highly flammable liquid and vapor. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H411 Toxic to aquatic life with long lasting effects.
-------------------	---	--

Precautionary Statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read
--------------------------	---	--

**2-Methyl-2-Butene**

Version 2.4

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	Date of last issue:	MSDS number:
2.4	2026-08-03	100000013905	2026-02-19 2009-10-27	

and understood.

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

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P261 Avoid breathing mist or vapors.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P321 Specific treatment (see supplemental first aid instructions on this label).

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P391 Collect spillage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container according to waste-related laws

**2-Methyl-2-Butene**

Version 2.4

Revision Date 2026-08-03

MSDS number:
Version 2.4 Revision Date: 2026-08-03 SDS Number (Internal): 100000013905 Date of last issue: 2026-02-19
Date of first issue: 2009-10-27

Other hazards which do not result in classification

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS**Components**

Chemical name	Common Name	CAS-No.	Concentration (% w/w)
2-methyl-2-butene	2-methylbut-2-ene	513-35-9	>= 95 - <= 100
2-methyl-1-butene	2-methylbut-1-ene	563-46-2	>= 10 - < 15

4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Show this material safety data sheet to the doctor in attendance.
Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- If inhaled : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.
- If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed.
May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause drowsiness or dizziness.
Suspected of causing genetic defects.

**2-Methyl-2-Butene**

Version 2.4

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2026-02-19	MSDS number:
2.4	2026-08-03	100000013905	Date of first issue: 2009-10-27	

Notes to physician : Suspected of causing cancer.
: Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable and unsuitable extinguishing media**

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

**2-Methyl-2-Butene**

Version 2.4

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2026-02-19	MSDS number:
2.4	2026-08-03	100000013905	Date of first issue: 2009-10-27	

/ national regulations (see section 13).

7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-methyl-2-butene	513-35-9	TWA	10 ppm	ACGIH

Other ingredients, which are listed in section 3 but not listed in this section, do not have established occupational exposure limit values.

Engineering measures : Adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

**2-Methyl-2-Butene**

Version 2.4

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	Date of last issue:	MSDS number:
2.4	2026-08-03	100000013905	2026-02-19 2009-10-27	

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment. Among the following personal protective equipment, the PPEs which require safety certification need to be certified by KOSHA.

- Respiratory protection : If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate.
If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:
Air-Purifying Respirator for Organic Vapors
A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
- Hand protection
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Wear as appropriate:
Flame retardant antistatic protective clothing.
Workers should wear antistatic footwear.

**2-Methyl-2-Butene**

Version 2.4

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number:
2.4	2026-08-03	100000013905	2026-02-19 2009-10-27

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: Colorless
Odor	: Mild
pH	: Not applicable
Pour point	: No data available
Boiling point/boiling range	: 38.6 °C
Flash point	: -45 °C
	Method: Setaflash Closed Cup
Evaporation rate	: 1
Self-ignition	: No data available
Lower explosion limit / Lower flammability limit	: Lower flammability limit 1.4 %(V)
Vapor pressure	: 14.3 PSI (37.8 °C)
Solubility(ies) Water solubility	: negligible
Relative vapor density	: No data available
Relative density	: 0.67 (15.6 °C)
Partition coefficient: n-octanol/water	: No data available
Viscosity Viscosity, kinematic	: 0.29 mm ² /s (20 °C)
Oxidizing properties	: No
Molecular weight	: 70.15 g/mol

**2-Methyl-2-Butene**

Version 2.4

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2026-02-19	MSDS number:
2.4	2026-08-03	100000013905	Date of first issue: 2009-10-27	

10. STABILITY AND REACTIVITY

Chemical stability and possibility of hazardous reactions	:	Reactivity: Stable under recommended storage conditions. Chemical stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Possibility of hazardous reactions: Hazardous polymerization does not occur. Vapors may form explosive mixture with air. No decomposition if stored and applied as directed.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous decomposition products	:	Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : No data available

Health hazard information**Acute toxicity**

Harmful if swallowed.

Product:

Acute oral toxicity	:	Acute toxicity estimate: 526.32 mg/kg Method: Calculation method
---------------------	---	---

Components:**2-methyl-2-butene:**

Acute oral toxicity	:	LD50 (Rat): 1,000 - 1,700 mg/kg Assessment: 1 - harmful
Acute inhalation toxicity	:	LC50 (Rat): > 175 mg/l Exposure time: 4 h Test atmosphere: vapor Assessment: 0 - Not toxic
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Assessment: Not harmful

**2-Methyl-2-Butene**

Version 2.4

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2026-02-19	MSDS number:
2.4	2026-08-03	100000013905	Date of first issue: 2009-10-27	

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks : May cause skin irritation in susceptible persons.

Components:**2-methyl-2-butene:**

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: Skin irritation

Remarks : May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

No data available

Product:

Remarks : Vapors may cause irritation to the eyes, respiratory system and the skin.

Components:**2-methyl-2-butene:**

Species	: Rabbit
Result	: No eye irritation
Method	: OECD Test Guideline 405

Remarks : Vapors may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitization**Respiratory sensitization**

No data available

Skin sensitization

No data available

Components:**2-methyl-2-butene:**

Test Type : Maximization Test

**2-Methyl-2-Butene**

Version 2.4

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2026-02-19	MSDS number:
2.4	2026-08-03	100000013905	Date of first issue: 2009-10-27	

Method : OECD Test Guideline 406
Result : Did not cause sensitization on laboratory animals.

Carcinogenicity

Suspected of causing cancer.

Components:**2-methyl-2-butene:**

Suspected of causing cancer.

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

2-methyl-1-butene:

No data available

Germ cell mutagenicity

Suspected of causing genetic defects.

Components:**2-methyl-2-butene:**

Suspected of causing genetic defects.

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Method: OECD Test Guideline 480
Result: negative

Genotoxicity in vivo : Test Type: Mouse micronucleus assay
Species: Rat (male)
Cell type: Bone marrow
Application Route: Inhalation
Exposure time: 6 h/d 2d
Method: OECD Test Guideline 474
Result: positive

Germ cell mutagenicity- Assessment : In vitro tests showed mutagenic effects

2-methyl-1-butene:

No data available

**2-Methyl-2-Butene**

Version 2.4

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2026-02-19	MSDS number:
2.4	2026-08-03	100000013905	Date of first issue: 2009-10-27	

Reproductive toxicity

No data available

Components:**2-methyl-2-butene:**

No data available

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.
Animal testing did not show any effects on fetal development.

2-methyl-1-butene:

No data available

STOT-single exposure

May cause drowsiness or dizziness.

Components:**2-methyl-2-butene:**

Target Organs : Central nervous system
Assessment : May cause drowsiness or dizziness.

STOT-repeated exposure

No data available

Repeated dose toxicity**Components:****2-methyl-2-butene:**

Species : Rat, Male and female
NOAEL : 580 ppm
Application Route : Inhalation
Exposure time : 4 wk
Number of exposures : 6 h/d, 7 d/wk
Dose : 580, 2000, 7000 ppm
Method : OECD Guideline 422

Aspiration toxicity

May be fatal if swallowed and enters airways.

**2-Methyl-2-Butene**

Version 2.4

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2026-02-19	MSDS number:
2.4	2026-08-03	100000013905	Date of first issue: 2009-10-27	

Components:**2-methyl-2-butene:**

May be fatal if swallowed and enters airways.

2-methyl-1-butene:

May be fatal if swallowed and enters airways.

Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information**Product:**

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

Components:**2-methyl-2-butene:**

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

2-methyl-1-butene:

Remarks : Solvents may degrease the skin.

**2-Methyl-2-Butene**

Version 2.4

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number:
2.4	2026-08-03	100000013905	2026-02-19 2009-10-27

12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****2-methyl-2-butene:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.99 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.84 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 13.2 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Persistence and degradability**Components:****2-methyl-2-butene:**

Biodegradability : aerobic
Biodegradation: 7 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
Remarks: This material is not expected to be readily biodegradable.

Bioaccumulative potential

No data available

**2-Methyl-2-Butene**

Version 2.4

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2026-02-19	MSDS number:
2.4	2026-08-03	100000013905	Date of first issue: 2009-10-27	

Mobility in soil

No data available

Other adverse effects**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

Components:**2-methyl-2-butene:**

Results of PBT and vPvB assessment : Non-classified PBT substance
Non-classified vPvB substance

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

2-methyl-1-butene:

Additional ecological information : No data available

Endocrine disrupting properties

No data available

13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

Disposal precautions

Dispose of contents and container according to wastes control act.

**2-Methyl-2-Butene**

Version 2.4

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2026-02-19	MSDS number:
2.4	2026-08-03	100000013905	Date of first issue: 2009-10-27	

14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

UN/ID No.	: UN 1993
Proper shipping name	: Flammable liquid, n.o.s. (,)
Class	: 3
Packing group	: II
Labels	: Class 3 - Flammable Liquid

IMDG-Code

UN number	: UN 1993
Proper shipping name	: FLAMMABLE LIQUID, N.O.S. (,)
Class	: 3
Packing group	: II
Labels	: 3
EmS Code	: F-E, S-E
Marine pollutant	: no

Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

Domestic regulation

Refer to section 15 for specific national regulation.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION**National regulatory information****Regulation under the Occupational Safety and Health Act****Harmful Substances Prohibited from Manufacturing**

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Harmful Agents to be kept below Occupational Exposure Limits

Not applicable

**2-Methyl-2-Butene**

Version 2.4

Revision Date 2026-08-03

MSDS number:
Version 2.4 Revision Date: 2026-08-03 SDS Number (Internal): 100000013905 Date of last issue: 2026-02-19
Date of first issue: 2009-10-27

Harmful Agents Required to be kept below Permission Levels

Not applicable

Hazardous substances requiring management

Not applicable

Special Management Materials

Not applicable

Controlled Substances Subject to Environment Monitoring

Not applicable

Controlled Substances Subject to Health Examination

Not applicable

Hazardous Substances Subject to Process Safety Management (PSM) Reporting Obligation

Chemical name/Classification	Manufacturing or handling quantity	Storage quantity
Flammable liquids	5,000 kg	200,000 kg

K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 1)

Category
Flammable liquid

K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 9)

Category	Manufacturing or handling quantity
Flammable liquid	200 liter

Regulation under the Chemicals Control Act**Restricted Chemicals**

Not applicable

Prohibited Chemicals

Not applicable

Toxic Release Inventory

Not applicable

Accident Precaution Chemicals

Not applicable

Chemicals of Acute and Chronic Hazard to Human Health and the Environment**Substances Acutely hazardous to humans**

Not applicable

**2-Methyl-2-Butene**

Version 2.4

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2026-02-19	MSDS number:
2.4	2026-08-03	100000013905	Date of first issue: 2009-10-27	

Substances Chronically hazardous to humans

Not applicable

Substances Hazardous to the environment

Not applicable

Accident Precaution Chemicals

Not applicable

Toxic Release Inventory

Not applicable

Act on Registration and Evaluation of Chemical Substances (K-REACH)**Restricted Chemicals**

Not applicable

Prohibited Chemicals

Not applicable

Substances subject to intensive control (ARECs)

Not applicable

Substances with Unconfirmed Hazards

Not applicable

Dangerous Substances Safety Management Act

Classification : Group 4, Flammable liquids, Special flammables

Hazard rank : Hazardous rank I

Designated Quantity : 50 liter

Safety Warning : Keep away from fire

Waste Control Act

Industrial general wastes

Follow article 13 of the act to dispose the product waste

Other requirements in domestic and other countries**The ingredients of this product are reported in the following inventories:**

EU REACH : Not in compliance with the inventory

CH INV : Not in compliance with the inventory

TSCA : On the inventory, or in compliance with the inventory

**2-Methyl-2-Butene**

Version 2.4

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2026-02-19	MSDS number:
2.4	2026-08-03	100000013905	Date of first issue: 2009-10-27	

DSL	:	All components of this product are on the Canadian DSL
AU AIIC	:	On the inventory, or in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations.
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
TW TCSI	:	On the inventory, or in compliance with the inventory
TECI	:	On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

Issuing date : 2009-10-27

Revision number and date

Number of Revision : 2.4
Revision Date : 2026-08-03
Date format : yyyy/mm/dd

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and

**2-Methyl-2-Butene**

Version 2.4

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2026-02-19	MSDS number:
2.4	2026-08-03	100000013905	Date of first issue: 2009-10-27	

Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

KR / EN