



1,3-BUTADIENE (1,1,4,4-D4, 98%) + HYDROQUINONE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 17/12/2010

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Supersedes: 31/07/2014

Version: 4.0

DLM-877

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

1.1. Product identifier

Product form	: Substance
Substance name	: 1,3-BUTADIENE (1,1,4,4-D4, 98%) + HYDROQUINONE
EC Index-No.	: 601-013-00 (Unlabeled)
EC-No.	: 203-450-8 (Unlabeled)
CAS-No.	: 106-99-0 (Unlabeled)
Product code	: DLM-877
Formula	: $CD_2=CHCH=CD_2$
Other means of identification	: Also applicable to: DLM-877-1-LB

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

1.2.1. Relevant identified uses

Main use category	: Professional use
Industrial/Professional use spec	: For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.
50 Frontage Road
Andover, MA 01810
USA

USA: 1-800-322-1174 Int: 1-978-749-8000
cilsales@isotope.com www.isotope.com

Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours)
International: 1-703-741-5970 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Gas 1	H220
Press. Gas (Comp.)	H280
Muta. 1A	H340
Carc. 1A	H350

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

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F+; R12
R5
Muta.Cat.2; R46
Carc.Cat.2; R45
Carc.Cat.2; R49

Full text of R-phrases: see section 16

GHS-US classification

Flam. Gas 1	H220
Press. Gas (Comp.)	H280
Muta. 1A	H340
Carc. 1A	H350

Full text of H statements : see section 16

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Adverse physicochemical, human health and environmental effects

Blood. Heart. Eyes. Central nervous system.

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

: H220 - Extremely flammable gas
H280 - Contains gas under pressure; may explode if heated
H340 - May cause genetic defects (in contact with skin, if inhaled, if swallowed)
H350 - May cause cancer (in contact with skin, if inhaled, if swallowed)

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381 - Eliminate all ignition sources if safe to do so.
P403 - Store in a well-ventilated place.
P405 - Store locked up.
P410+P403 - Protect from sunlight. Store in a well-ventilated place.

GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: H220 - Extremely flammable gas
H280 - Contains gas under pressure; may explode if heated
H340 - May cause genetic defects (Dermal, Inhalation, oral)
H350 - May cause cancer (Dermal, Inhalation, oral)

Precautionary statements (GHS-US)

: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381 - Eliminate all ignition sources if safe to do so.
P403 - Store in a well-ventilated place.
P405 - Store locked up.
P410+P403 - Protect from sunlight. Store in a well-ventilated place.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Directive 67/548/EEC
1,3-BUTADIENE (1,1,4,4-D4, 98%) + HYDROQUINONE	(CAS-No.) 106-99-0 (Unlabeled) (EC-No.) 203-450-8 (Unlabeled) (EC Index-No.) 601-013-00 (Unlabeled)	100	F+; R12 R5 Muta.Cat.2; R46 Carc.Cat.2; R45 Carc.Cat.2; R49

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,3-BUTADIENE (1,1,4,4-D4, 98%) + HYDROQUINONE	(CAS-No.) 106-99-0 (Unlabeled) (EC-No.) 203-450-8 (Unlabeled) (EC Index-No.) 601-013-00 (Unlabeled)	100	Flam. Gas 1, H220 Press. Gas (Comp.), H280 Muta. 1A, H340 Carc. 1A, H350

Full text of R- and H- phrases: see section 16

Name	Product identifier	%	GHS-US classification
1,3-BUTADIENE (1,1,4,4-D4, 98%) + HYDROQUINONE (Main constituent)	(CAS-No.) 106-99-0 (Unlabeled)	100	Flam. Gas 1, H220 Press. Gas (Comp.), H280 Muta. 1A, H340 Carc. 1A, H350

Full text of H-phrases: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area. If not breathing give artificial respiration. Get medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. and soap. Get immediate medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.

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

Symptoms/effects	: May cause genetic defects (in contact with skin, if inhaled, if swallowed).
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
Chronic symptoms	: May cause cancer.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Extremely flammable gas. Flammable in the presence of an oxidizing gas (eg air), a source of ignition, and when the concentration of the gas is between the lower and upper explosive limits. Keep away from heat, sparks, open flames, hot surfaces, oxidizing gases. No smoking.
Explosion hazard	: Contains gas under pressure; may explode if heated.

5.3. Advice for firefighters

Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.
Other information	: Use water spray to cool exposed surfaces.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Avoid breathing vapors, mist, gas. Avoid dust formation. Ensure adequate air ventilation. Remove all sources of ignition. Special attention should be given to low areas/pits where flammable vapors can accumulate.

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6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Clean up promptly by sweeping or vacuum.
Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation to minimize dust and/or vapor concentrations. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a well-ventilated place. Keep container tightly closed.
Storage conditions : Store at room temperature away from light and moisture.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1,3-BUTADIENE (1,1,4,4-D4, 98%) + HYDROQUINONE (106-99-0 (Unlabeled))		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	2.00000000 ppm USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Potential Occupational Carcinogen. Cancer. Suspected human carcinogen.
USA OSHA	OSHA PEL (TWA) (ppm)	1 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants. OSHA Specifically Regulated Chemicals/Carcinogens. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (STEL) (mg/m ³)	11 mg/m ³ California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (STEL) (ppm)	5 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants. OSHA Specifically Regulated Chemicals/Carcinogens. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	2.2 mg/m ³ California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2. Exposure controls

Appropriate engineering controls : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Materials for protective clothing : Wear suitable protective clothing and gloves.
Hand protection : Wear suitable protective clothing and gloves.
Eye protection : Wear eye protection. Chemical goggles or face shield with safety glasses.
Skin and body protection : Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection : In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.
Environmental exposure controls : Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Gas
Appearance	: Liquefied gas
Molecular mass	: 58.12 g/mol (Labeled)
Color	: Colorless
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -109 °C (-164 °F) - lit.
Freezing point	: No data available
Boiling point	: -4.5 °C (23.9 °F) - lit.
Flash point	: -76 °C (-105 °F) - closed cup - Tested according to Annex V of Directive 67/548/EEC.
Auto-ignition temperature	: 415 °C (779 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 2400 hPa (1,800 mmHg) at 20 °C (68 °F); 3,200 hPa (2,400 mmHg) at 30 °C (86 °F); 5,700 hPa (4,275 mmHg) at 50 °C (122 °F)
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 0.62 g/cm ³ at 20 °C (68 °F)
Solubility	: Water: 0.5 g/l at 20 °C (68 °F) - Tested according to Annex V of Directive 67/548/EEC.
Log Pow	: 1.85 at 23 °C (73 °F)
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: 1.4 - 16.3 vol %

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable if stored under recommended conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Avoid moisture. Keep away from heat, sparks and flame. Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Strong oxidizing agents. Oxygen. Copper. Copper alloys. Carbides. Halogens. Metal oxides, Metals.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

1,3-BUTADIENE (1,1,4,4-D4, 98%) + HYDROQUINONE (106-99-0 (Unlabeled))	
LD50 oral rat	5480 mg/kg
LC50 inhalation rat (mg/l)	285 mg/l/4h

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

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Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: In vivo tests showed mutagenic effects.
Carcinogenicity	: Carcinogenicity - Rat - Inhalation. Tumorigenic: Carcinogenic by RTEC criteria. Cardiac: Tumors. Lungs, Thorax, or Respiration: Tumors. This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification. Human carcinogenic NTP : Known to be human carcinogen OSHA specifically regulated carcinogen
Reproductive toxicity	: Reproductive toxicity - mouse - inhalation. Effects on Fertility: Post-implantation mortality (e.g. dead and/or resorbed implants per total number of implants). Effects on Embryo or Fetus: Extra embryonic structures (e.g. placenta, umbilical cord). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g. stunted fetus). Developmental toxicity - Rat - Inhalation - Specific Developmental Abnormalities: Musculoskeletal system.
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: 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. Cholinesterase inhibitors can cause heavy salivation and secretion in the lungs, lachrymation, blurred vision, involuntary defecation, diarrhea, tremor, ataxia, sweating, hypothermia, lowered heart rate, and/or a fall in blood pressure as a result of their action at cholinergic nerve sites, narcosis, headache, nausea, vomiting, dizziness, drowsiness, confusion, weakness, muscle cramps/spasms, change in pupil size, tremors, seizures, incoordination, convulsions, coma. Stomach - Irregularities - Based on Human Evidence.
IARC group	: 1
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
Chronic symptoms	: May cause cancer.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

1,3-BUTADIENE (1,1,4,4-D4, 98%) + HYDROQUINONE (106-99-0 (Unlabeled))

LC50 fish 1	71.5 mg/l other fish - 24 h
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12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

1,3-BUTADIENE (1,1,4,4-D4, 98%) + HYDROQUINONE (106-99-0 (Unlabeled))

Log Pow	1.85 at 23 °C (73 °F)
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.

Product/Packaging disposal recommendations : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

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Ecology - waste materials : Dispose of as unused product.

SECTION 14: Transport information

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

14.1. UN number

UN-No.(DOT) : 1010
DOT NA no. UN1010

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Butadienes, stabilized
Class (DOT) : 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
Hazard labels (DOT) : 2.1 - Flammable gas



DOT Special Provisions (49 CFR 172.102) : T50 - When portable tank instruction T50 is referenced in Column (7) of the 172.101 Table, the applicable liquefied compressed gases are authorized to be transported in portable tanks in accordance with the requirements of 173.313 of this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx) : 306
DOT Packaging Non Bulk (49 CFR 173.xxx) : 304
DOT Packaging Bulk (49 CFR 173.xxx) : 314;315

14.3. Additional information

Emergency Response Guide (ERG) Number : 116P
Other information : No supplementary information available.

Overland transport

Class (ADR) : 2 - Gases
Hazard identification number (Kemler No.) : 239
Classification code (ADR) : 2F
Hazard labels (ADR) : 2.1 - Flammable gases



Orange plates :



Tunnel restriction code (ADR) : B/D
Limited quantities (ADR) : 0
EAC : 2YE
Excepted quantities (ADR) : E0

Transport by sea

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"
MFAG-No : 116P

Air transport

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : Forbidden

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DOT Quantity Limitations Cargo aircraft only (49 : 150 kg
CFR 175.75)

Civil Aeronautics Law : Gases under pressure/Gases flammable under pressure

14.4. Environmental hazards

Other information : No supplementary information available.

14.5. Special precautions for user

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

1,3-BUTADIENE (1,1,4,4-D4, 98%) + HYDROQUINONE (106-99-0 (Unlabeled))

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Fire hazard Sudden release of pressure hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Subject to reporting requirements of the United States SARA Section 313.

15.2. International regulations

CANADA

1,3-BUTADIENE (1,1,4,4-D4, 98%) + HYDROQUINONE (106-99-0 (Unlabeled))

Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

1,3-BUTADIENE (1,1,4,4-D4, 98%) + HYDROQUINONE(106-99-0 (Unlabeled))

U.S. - California - Proposition 65 - Carcinogens List	Yes
U.S. - California - Proposition 65 - Developmental Toxicity	Yes
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	Yes
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Yes
State or local regulations	U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Massachusetts - Right To Know List

SECTION 16: Other information

Other information : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases:

Carc. 1A	Carcinogenicity Category 1A
Flam. Gas 1	Flammable gases Category 1
Muta. 1A	Germ cell mutagenicity Category 1A
Press. Gas (Comp.)	Gases under pressure Compressed gas
H220	Extremely flammable gas
H280	Contains gas under pressure; may explode if heated
H340	May cause genetic defects
H350	May cause cancer
R12	Extremely flammable

1,3-BUTADIENE (1,1,4,4-D4, 98%) + HYDROQUINONE

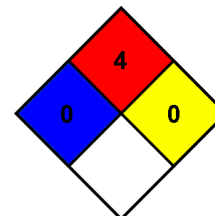
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R45	May cause cancer
R46	May cause heritable genetic damage
R49	May cause cancer by inhalation
R5	Heating may cause an explosion
F+	Extremely flammable

NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 4 - Materials that rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 4 Severe Hazard
Physical	: 3 Serious Hazard

CIL Substance SDS

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