SAFETY DATA SHEET



1,3 Butadiene

Section 1. Identification

GHS product identifier : 1,3 Butadiene
Chemical name : 1,3-butadiene
CAS number : 106-99-0

Other means of identification

: buta-1,3-diene; .alpha.,.gamma.-Butadiene; Biethylene; Bivinyl; Erythrene; Pyrrolylene;

Vinylethylene; Butadiene (1,3-Butadiene); Butadiene; Divinyl;

Product use : Industrial use

Supplier's details : TPC Group

One Allen Center, Suite 2000 Houston, TX, 77002, USA

T 713-627-7474

e-mail address of person responsible for this SDS

: communications@tpcgrp.com

Emergency telephone number (with hours of operation) : 800-424-9300 (Chemtrec - U.S.)

+1-703-527-3887 (Chemtrec - International)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture

: FLAMMABLE GASES - Category 1A

CHEMICALLY UNSTABLE GASES - Category A GASES UNDER PRESSURE - Compressed gas GERM CELL MUTAGENICITY - Category 1B CARCINOGENICITY - Category 1A

GHS label elements

Hazard pictograms :







Signal word : Danger

Hazard statements : Extremely flammable gas.

May react explosively even in the absence of air. Contains gas under pressure; may explode if heated.

May cause genetic defects.

May cause cancer.

Precautionary statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have

been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

Response : Leaking gas fire: Do not extinguish, unless leak can be stopped safely. In case of

leakage, eliminate all ignition sources. IF exposed or concerned: Get medical advice or

attention.

Storage: Store locked up. Protect from sunlight. Store in a well-ventilated place.

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1,3 Butadiene

Section 2. Hazards identification

Disposal : Dispose of contents a

: Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Supplemental label

elements

: May form explosive peroxides upon exposure to air.

May cause frostbite.

Hazards not otherwise

classified

: None known.

Hazards identified when

used

: No known significant effects or critical hazards.

Section 3. Composition/information on ingredients

Substance/mixture : Substance
Chemical name : 1,3-butadiene

Other means of : buta-1,3-diene; .alpha.,.gamma.-Butadiene; Biethylene; Bivinyl; Erythrene; Pyrrolylene;

identification Vinylethylene; Butadiene (1,3-Butadiene); Butadiene; Divinyl;

Ingredient name	Synonyms	%	Identifiers
1,3-butadiene	buta-1,3-diene; .alpha.,.gamma Butadiene; Biethylene; Bivinyl; Erythrene; Pyrrolylene; Vinylethylene; Butadiene (1,3-Butadiene); Butadiene; Divinyl;	100	CAS: 106-99-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If

not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact: Contact with rapidly expanding gas may cause burns or frostbite. If frostbite occurs, get

medical attention. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

Ingestion: As this product is a gas, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation: Harmful if inhaled.

Skin contact: Contact with rapidly expanding gas may cause burns or frostbite.

Ingestion: As this product is a gas, refer to the inhalation section.

Over-exposure signs/symptoms

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Section 4. First aid measures

Eye contact : No specific data. Inhalation : No specific data. : No specific data. Skin contact Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

: In case of fire, use water spray (fog), foam or dry chemical. Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: Do not use carbon dioxide or water jets.

Specific hazards arising from the chemical

: Contains gas under pressure. Extremely flammable gas. Material will produce a vigorous reaction under conditions of shock, pressure or temperature. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Material will produce a vigorous reaction under conditions of shock, pressure or temperature. May form explosive peroxides upon exposure to air.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide

carbon monoxide

Special protective actions for fire-fighters

: First move people out of line-of-sight of the scene and away from windows. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Do not fight fire when it reaches the material. Withdraw from fire and let it burn. Eliminate all ignition sources if safe to do so.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Firefighters' protective clothing will only provide limited protection.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Accidental releases pose a serious fire or explosion hazard. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

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Section 6. Accidental release measures

Environmental precautions

: Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

: Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

Large spill

: Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
1,3-butadiene	NIOSH REL (United States, 10/2020) NIA.
	CAL OSHA PEL (United States, 1/2025)
	STEL 15 minutes: 11 mg/m³.
	STEL 15 minutes: 5 ppm.
	TWA 8 hours: 2.2 mg/m³.
	TWA 8 hours: 1 ppm.
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 1 ppm.
	STEL 15 minutes: 5 ppm.
	ACGIH TLV (United States, 1/2024) A2.
	TWA 8 hours: 2 ppm.
	TWA 8 hours: 4.4 mg/m³.

Biological exposure indices

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Section 8. Exposure controls/personal protection

Ingredient name	Exposure indices
1,3-butadiene	ACGIH BEI (United States, 1/2024) BEI: 2.5 mg/l [Semi-quantitative: The determinant is an indicator of exposure to the chemical, but the quantitative interpretation of the measurement is ambiguous. These determinants should be used as a screening test if a quantitative test is not practical or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], 1,2 dihydroxy-4-(N-acetylcysteinyl)-butane [in urine]. Sampling time: end of shift. BEI: 2.5 pmol/g hemoglobin [Semi-quantitative: The determinant is an indicator of exposure to the chemical, but the quantitative interpretation of the measurement is ambiguous. These determinants should be used as a screening test if a quantitative test is not practical or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], mixture of N-1- and N-2-(hydroxybutenyl)valine hemoglobin (Hb) adducts [in blood]. Sampling time: not critical.

Appropriate engineering controls

: Use only with adequate ventilation. Engineering controls may be required to control the primary or secondary risks associated with this product. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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Section 8. Exposure controls/personal protection

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. **Recommended:** Ensure an MSHA/NIOSH-approved respirator or equivalent is used.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Gas. [Compressed gas.]

Color : Colorless.

Odor : Characteristic. [Slight]

Odor threshold : Not available.

pH : Not applicable.

Melting point/freezing point : -108.9°C (-164°F)

Boiling point or initial : -4.41°C (24.1°F)

boiling point and boiling range

Flash point : Closed cup: -76.1°C (-105°F)

Evaporation rate : Not available.
Flammability : Not available.
Lower and upper explosion : Lower: 2%
Upper: 12%

Vapor pressure : 34.5 PSIA; 237.9 kPa (1784.16 mm Hg) [15.6°C (60.1°F)]

Relative vapor density : 1.87 [Air = 1]

Relative density : 0.62 [15.6°C (60.1°F)] **Density** : 0.0023 g/cm³ [15°C (59°F)]

Solubility in water : slightly soluble.

Partition coefficient: n-

octanol/water

: 1.99

Auto-ignition temperature : 420°C (788°F)

Decomposition temperature : Not available.

Heat of combustion : -44.21 kJ/g

Viscosity : Dynamic (room temperature): Not available.

Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): Not available.

Molecular weight: 54.1 g/molExplosive properties: Not available.Oxidizing properties: Not available.

Particle characteristics

Median particle size : Not applicable.

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Section 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability

: The product may not be stable under certain conditions of storage or use. See "Possibility of Hazardous Reactions" for further information.

Possibility of hazardous reactions

: Hazardous reactions or instability may occur under certain conditions of storage or use.

Conditions may include the following:

shock friction

high temperature

Reactions may include the following:

risk of explosion

May form explosive peroxides upon exposure to air.

Hazardous polymerization may occur under certain conditions of storage or use.

Conditions to avoid

: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Avoid

shock and friction.

Incompatible materials

: Reactive or incompatible with the following materials: peroxides, chlorine, phenols,

copper, oxygen.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result and Species	Dose [Exposure]	Remarks
1,3-butadiene	Oral - Rat - LD50	5480 mg/kg	-
	Inhalation - Rat - LC50 Vapor	285 g/m³ [4 hours]	-
	Inhalation - Rat - LC50 Gas.	128000 ppm [4 hours]	-

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Irritation/Corrosion

Conclusion/Summary

Skin: Not available.Eyes: Not available.Respiratory: Not available.

Respiratory or skin sensitization

Product/ingredient name	Route of exposure and Species	Result	Remarks
1,3-butadiene	skin - Mammal (species unspecified)	Not sensitizing	-

Conclusion/Summary

Skin: Based on available data, the classification criteria are not met.

Respiratory: Not available.

Mutagenicity

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Section 11. Toxicological information

Product/ingredient name	Result	Experiment	Remarks
1,3-butadiene	Positive	In vivo - Mammalian-Animal - Somatic	-
	Positive	In vitro - Bacteria - Somatic	-
	Positive	In vivo - Mammalian-Animal - Germ	-

Conclusion/Summary

: May cause genetic defects.

Carcinogenicity

Conclusion/Summary: May cause cancer.

Classification

Product/ingredient name	OSHA	IARC	NTP
1,3-butadiene	+	1	Known to be a human carcinogen.

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely

routes of exposure

: Routes of entry anticipated: Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact: Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : Harmful if inhaled.

Skin contact: Contact with rapidly expanding gas may cause burns or frostbite.

Ingestion: As this product is a gas, refer to the inhalation section.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
 Inhalation : No specific data.
 Skin contact : No specific data.
 Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

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1,3 Butadiene

Section 11. Toxicological information

Not available.

Conclusion/Summary: Not available.

General: No known significant effects or critical hazards.

Carcinogenicity: May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity: May cause genetic defects.

Reproductive toxicity: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	- ' ' '	Dermal (mg/kg)	(gases)	(vapors)	Inhalation (dusts and mists) (mg/ I)
1,3-butadiene	5480	N/A	128000	285	N/A

Section 12. Ecological information

Toxicity

Conclusion/Summary: Not available.

Persistence and degradability

Conclusion/Summary: Not readily biodegradable.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
1,3-butadiene	1.99	10	Low

Mobility in soil

Soil/Water partition

coefficient

: 51.6 Koc [20°C]

Mobility : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty pressure vessels should be returned to the supplier. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate

If discarded, this product is considered a RCRA ignitable waste, D001.

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Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	UN1010	UN1010	UN1010	UN1010	UN1010	UN1010
UN proper shipping name	Butadienes, stabilized	BUTADIENES, STABILIZED	BUTADIENOS ESTABILIZADOS	BUTADIENES, STABILIZED	BUTADIENES, STABILIZED	Butadienes, stabilized
Transport hazard class(es)	2.1	2.1	2.1	2	2.1	2.1
Label	PLANUMALE CAS					
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	Marine Pollutant: No	No.

Additional information

DOT Classification : Reportable quantity 10 lbs / 4.54 kg. Package sizes shipped in quantities less than

the product reportable quantity are not subject to the RQ (reportable quantity)

transportation requirements. **Limited quantity** Yes.

Packaging instruction Exceptions: 306. Non-bulk: 304. Bulk: 314, 315. Quantity limitation Passenger aircraft/rail: Forbidden. Cargo aircraft: 150 kg.

Special provisions 387, T50

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous

Goods Regulations: 2.13-2.17 (Class 2).

Explosive Limit and Limited Quantity Index 0.125

ERAP Index 3000

Passenger Carrying Road or Rail Index Forbidden

Special provisions 155

Mexico Classification : Special provisions 386

ADR/RID : Hazard identification number 239

Limited quantity 0

Special provisions 618, 662, 386, 676, 402

Tunnel code (B/D)

: Emergency schedules F-D, S-U **IMDG**

Special provisions 386, 402

IATA : Quantity limitation Passenger and Cargo Aircraft: Forbidden. Packaging instructions:

Forbidden. Cargo Aircraft Only: 150 kg. Packaging instructions: 200. Limited Quantities

- Passenger Aircraft: Forbidden. Packaging instructions: Forbidden.

Special provisions A1, A209

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according : Not intended.

to IMO instruments

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Section 15. Regulatory information

U.S. Federal regulations

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act (CAA) 112 regulated flammable substances: 1,3-butadiene

TSCA 12(b) - Chemical export notification

Not applicable.

Clean Air Act Section 112

: Listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602

: Not listed

Class I Substances

Clean Air Act Section 602

: Not listed

Class II Substances

DEA List I Chemicals

: Not listed

(Precursor Chemicals)

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

			SARA 302 T	PQ	SARA 304 F	RQ.
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
1,3-butadiene	100	Yes.	-	-	10	-

: 10 lbs / 4.5 kg SARA 304 RQ

SARA 311/312

Classification : FLAMMABLE GASES - Category 1A

> CHEMICALLY UNSTABLE GASES - Category A GASES UNDER PRESSURE - Compressed gas GERM CELL MUTAGENICITY - Category 1B

CARCINOGENICITY - Category 1A

Composition/information on ingredients

Name	%	Classification
1,3-butadiene		FLAMMABLE GASES - Category 1A CHEMICALLY UNSTABLE GASES - Category A GASES UNDER PRESSURE - Compressed gas GERM CELL MUTAGENICITY - Category 1B CARCINOGENICITY - Category 1A

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	1,3-butadiene	106-99-0	100
Supplier notification	1,3-butadiene	106-99-0	100

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : This material is listed. **New York** : This material is listed. **New Jersey** : This material is listed. Pennsylvania : This material is listed.

California Prop. 65

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Section 15. Regulatory information



MARNING: This product can expose you to 1,3-butadiene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	. •	Maximum acceptable dosage level
1,3-butadiene	Yes.	-

EPA PFAS Compilation from Comptox

Not listed.

TSCA 8(a)7 - One-time Reporting PFAS

Not listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

OECD Comprehensive Global PFAS Database

Not listed.

Inventory list

Australia : This material is listed or exempted. Canada : This material is listed or exempted. China : This material is listed or exempted.

Eurasian Economic Union : Russian Federation inventory: This material is listed or exempted.

: Japan inventory (CSCL): Japan

This material is listed or exempted.

Japan inventory (ISHL):

This material is listed or exempted. **New Zealand** : This material is listed or exempted. : This material is listed or exempted. **Philippines** Republic of Korea : This material is listed or exempted. **Taiwan** : This material is listed or exempted. **Thailand** : This material is listed or exempted. : This material is listed or exempted. **Turkey United States** : This material is active or exempted. **Viet Nam** : This material is listed or exempted.

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Section 16. Other information

National Fire Protection Association (U.S.A.)



Procedure used to derive the classification

Classification	Justification
FLAMMABLE GASES - Category 1A	On basis of test data
CHEMICALLY UNSTABLE GASES - Category A	On basis of test data
GASES UNDER PRESSURE - Compressed gas	On basis of test data
GERM CELL MUTAGENICITY - Category 1B	On basis of test data
CARCINOGENICITY - Category 1A	On basis of test data

History

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revision

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Key to abbreviations : ADR = Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
DOT = Department of Transportation

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

RID = The Regulations concerning the International Carriage of Dangerous Goods by

Rail

SGG = Segregation Group

TDG = Transportation of Dangerous Goods

UN = United Nations

References : Not available.

▼ Indicates information that has changed from previously issued version.

Notice to reader

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