

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 11/23/2010 Revision date: 11/30/2022 Supersedes: 2/8/2019 Version: 3.4

SECTION 1: Identification

1.1. Identification		
Product form Substance name Chemical name IUPAC name CAS-No. Product code Formula	 Substance BENZENE-D6 (D, 99.5%) Benzene Benzene 71-43-2 DLM-1 C6H6 	
1.2. Recommended use and restrictions on use		
No additional information available		
1.3. Supplier		

Cambridge Isotope Laboratories, Inc. 50 Frontage Rd 01810 ANDOVER, MA, 01810 USA T 1-800-322-1174 <u>cilsales@isotope.com</u> - <u>www.isotope.com</u>

1.4. Emergency telephone number

Emergency number

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

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquids Category 2	H225	Highly flammable liquid and vapor
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Germ cell mutagenicity Category 1B	H340	May cause genetic defects (Inhalation, Dermal, oral)
Carcinogenicity Category 1A	H350	May cause cancer (Inhalation, Dermal, oral)
Aspiration hazard Category 1	H304	May be fatal if swallowed and enters airways
Full text of H statements : see section 16		

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)

Signal word (GHS US) Hazard statements (GHS US)

- : Danger

:

- : H225 Highly flammable liquid and vapor
 - H304 May be fatal if swallowed and enters airways
 - H315 Causes skin irritation
 - H340 May cause genetic defects (Inhalation, Dermal, oral)
 - H350 May cause cancer (Inhalation, Dermal, oral)

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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, sparks, open flames and other ignition sources. No
	smoking, heat, open flames, sparks
	P233 - Keep container tightly closed.
	P240 - Ground/Bond container and receiving equipment.
	P241 - Use explosion-proof electrical, lighting, ventilating equipment.
	P242 - Use only non-sparking tools.
	P243 - Take precautionary measures against static discharge.
	P264 - Wash hands, forearms and face thoroughly after handling.
	P280 - Wear protective clothing, protective gloves.
	P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER.
	P302+P352 - If on skin: Wash with plenty of water.
	P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse
	skin with water/shower.
	P308+P313 - If exposed or concerned: Get medical advice/attention.
	P321 - Specific treatment (see Hazardous component(s) for labeling 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 alcohol resistant foam, carbon dioxide (CO2), dry extinguishing
	powder to extinguish.
	P403+P235 - Store in a well-ventilated place. Keep cool.
	P405 - Store locked up.
	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 which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Substance type

: Mono-constituent

Name	Product identifier	%	GHS US classification
BENZENE-D6 (D, 99.5%) (Main constituent)	CAS-No.: 71-43-2	100	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1A, H350 Asp. Tox. 1, H304

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

3.2. Mixtures

Not applicable

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SECTION 4: First-aid measures

4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	 If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area. When symptoms occur: go into open air and ventilate suspected area. If not breathing, give artificial respiration. Get medical advice/attention. Wash with plenty of soap and water. Get immediate medical advice/attention. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Gently wash with plenty of soap and water, Get immediate medical advice/attention. Get medical advice/attention. Specific treatment (see Hazard pictograms (CLP) on this label). Rinse cautiously with water for several minutes. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get
	medical advice/attention. Immediately call a poison center or doctor/physician.
4.2. Most important symptoms and effect	cts (acute and delayed)
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. Dizziness. Headache. Nausea. Narcosis. Inhalation of high concentrations of benzene may have an initial stimulatory effect on the central nervous system characterized by exhilaration, nervous excitation and/or giddiness, depression, drowsiness, or fatigue. The victim may experience tightness in the chest, breathlessness, and loss of consciousness. Tremors, convulsions and death dur to repiratory paralysis or circulatory collapse can occur in a few minutes to several hours following severe exposures. Aspirations of small amounts of liquid immediately causes pulmonary edema and hemorrhage of pulmonary disease. Direct skin contact may cause erythema. Repeated or prolonged skin contact may result in drying, scaling dermatitis or development of secondary skin infections. The chief target organ is the hematopoietic system. Bleeding from the nose, gums, or mucous membranes and the development of purpuric spots, pancytopenia, leukopenia, thrombocytopenia, aplastic anemia and leukemia may occur as the condition progresses. The bone marrow may appear normal, aplastic or hyperplastic and may not correlate with peripheral blood-forming tissues. The onset of effects of prolonged benzene exposure may be delayed for months or years after the actual exposure has ceased. Blood disorders.
Symptoms/effects Symptoms/effects after inhalation	: May cause genetic defects (in contact with skin, if inhaled, if swallowed).
Symptoms/effects after skin contact Symptoms/effects after eye contact	 Causes skin irritation. May cause eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguish	ing media		
Suitable extinguishing media	: Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).		
5.2. Specific hazards arising from the chemical			
Fire hazard Explosion hazard	 Highly flammable liquid and vapor. Flash back possible over considerable distance. Container explosion may occur under fire conditions. May form flammable/explosive vapor-air mixture. 		

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5.3. Special protective equipment and preca	autions for fire-fighters
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			
General measures :	No flames, no sparks. Eliminate all sources of ignition. Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.		
6.1.1. For non-emergency personnel			
Emergency procedures :	Use personal protective equipment as required. Avoid breathing dust, fume, gas, mist, spray, vapors. Ensure adequate air ventilation. Eliminate all ignition sources if safe to do so. Evacuate unnecessary personnel. Special attention should be given to low areas/pits where flammable vapors can accumulate.		
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	Collect spillage. Clean up any spills as soon as possible, using an absorbent material to collect it. Vacuum with an equipment that avoids ignition risk. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.	
Methods for cleaning up Other information	This material and its container must be disposed of in a safe way, and as per local legislation.Dispose of materials or solid residues at an authorized site.	

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Avoid all eye and skin contact and do not breathe vapor and mist. Keep away from sources of ignition - No smoking. Use explosion-proof equipment. Take precautionary measures against static discharges. Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Provide adequate ventilation to minimize dust and/or vapor concentrations. No open flames. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so
Hygiene measures	 Handle in accordance with good industrial hygiene and safety practice. Wash hands, forearms and face thoroughly after handling.

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7.2. Conditions for safe storage, including any incompatibilities		
Technical measures	: Store in a well-ventilated place. Keep container tightly closed. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof Lighting equipment, ventilating equipment.	
Storage conditions	: Store at room temperature away from light and moisture.	
Incompatible materials	: Heat sources.	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

BENZENE-D6 (D, 99.5%) (71-43-2)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Benzene	
ACGIH OEL TWA [ppm]	0.5 ppm Leukemia Substances for which there is a Biological Exposure Index or Indices.	
ACGIH OEL STEL [ppm]	2.5 ppm Leukemia Substances for which there is a Biological Exposure Index or Indices.	
Remark (ACGIH)	TLV® Basis: Leukemia. Notations: Skin; A1 (Confirmed Human Carcinogen); BEI	
Regulatory reference	ACGIH 2022	
USA - ACGIH - Biological Exposure Indices		
Local name	BENZENE	
BEI	25 μ g/g Kreatinin Parameter: S-Phenylmercapturic acid - Medium: urine - Sampling time: End of shift - Notations: B 500 μ g/g Kreatinin Parameter: t,t-Muconic acid - Medium: urine - Sampling time: End of shift - Notations: B	
Regulatory reference	ACGIH 2022	
USA - OSHA - Occupational Exposure Limits		
Local name	Benzene	
OSHA PEL TWA [2]	10 ppm	
OSHA PEL C [ppm]	25 ppm	
Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	50 ppm 10 mins.	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-2	
8.2. Appropriate engineering controls		
Appropriate engineering controls : Environmental exposure controls :	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid release to the environment.	
8.3. Individual protection measures/Personal protective equipment		

Personal protective equipment:

Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.

Materials for protective clothing:

Wear suitable protective clothing and gloves

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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. Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator. Wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Appearance	:	Liquid.
Color	:	Colorless
Odor	:	No data available
Odor threshold	:	No data available
рН	:	No data available
Melting point	:	5.5 °C Source: ChemIDplus
Freezing point	:	No data available
Boiling point	:	80 °C Source: ChemIDplus
Flash point	:	-11 °C Source: ICSC
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	Highly flammable liquid and vapor.
Vapor pressure	:	10 kPa at 20°C Source: ECHA
Relative vapor density at 20°C	:	2.8 Source: HSDB
Relative density	:	0.877 Source: ECHA
Density	:	0.877 g/cm ³ Type: 'density' Temp.: 20 °C
Molecular mass	:	78.1134 g/mol Source: ChemIDplus
Solubility	:	Water: 1.88 g/l
Partition coefficient n-octanol/water (Log Pow)	:	2.13 Source: CHemIDplus, IPCS
Auto-ignition temperature	:	498 °C Source: ICSC
Decomposition temperature	:	No data available
Viscosity, kinematic	:	0.689 mm²/s
Viscosity, dynamic	:	0.604 cP Source: ECHA
Explosion limits	:	1.3 – 8 % (V)
		Upper explosion limit: 1.2 – 8 % Source: ICSC
Explosive properties	:	No data available
Oxidizing properties	:	No data available

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

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

Direct sunlight. Extremely high or low temperatures. Heat. Open flame. Sparks.

10.5. Incompatible materials

Acids. Bases. Halogens. Metallic salts. Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects			
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Not classified Not classified Not classified		
BENZENE-D6 (D, 99.5%) (71-43-2)			
LD50 oral rat	> 2000 mg/kg Source: ECHA		
LD50 dermal rabbit	> 8260 mg/kg Source: ECHA		
LC50 Inhalation - Rat	44700 mg/m³ female - 4 h		
ATE US (oral)	2990 mg/kg body weight		
ATE US (dermal)	8263 mg/kg body weight		
ATE US (vapors)	44.7 mg/l/4h		
ATE US (dust, mist)	44.7 mg/l/4h		
Skin corrosion/irritation :	Causes skin irritation.		
Serious eye damage/irritation :	Not classified		
Respiratory or skin sensitization :	Not classified		
Germ cell mutagenicity :	May cause genetic defects (Inhalation, Dermal, oral).		
Carcinogenicity :	May cause cancer (Inhalation, Dermal, oral).		
BENZENE-D6 (D, 99.5%) (71-43-2)			
IARC group	1 - Carcinogenic to humans		
National Toxicology Program (NTP) Status	Known Human Carcinogens		
Reproductive toxicity :	Not classified		
STOT-single exposure :	Not classified		
STOT-repeated exposure :	Not classified		
Aspiration hazard :	May be fatal if swallowed and enters airways.		

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Viscosity, kinematic	:	0.689 mm²/s
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. Dizziness. Headache. Nausea. Narcosis. Inhalation of high concentrations of benzene may have an initial stimulatory effect on the central nervous system characterized by exhilaration, nervous excitation and/or giddiness, depression, drowsiness, or fatigue. The victim may experience tightness in the chest, breathlessness, and loss of consciousness. Tremors, convulsions and death dur to repiratory paralysis or circulatory collapse can occur in a few minutes to several hours following severe exposures. Aspirations of small amounts of liquid immediately causes pulmonary edema and hemorrhage of pulmonary disease. Direct skin contact may cause erythema. Repeated or prolonged skin contact may result in drying, scaling dermatitis or development of secondary skin infections. The chief target organ is the hematopoietic system. Bleeding from the nose, gums, or mucous membranes and the development of purpuric spots, pancytopenia, leukopenia, thrombocytopenia, aplastic anemia and leukemia may occur as the condition progresses. The bone marrow may appear normal, aplastic or hyperplastic and may not correlate with peripheral blood-forming tissues. The onset of effects of prolonged benzene exposure may be delayed for months or years after the actual exposure has ceased. Blood disorders.
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. May cause cancer by inhalation.
Symptoms/effects after skin contact	:	Causes skin irritation.
Symptoms/effects after eye contact	:	May cause eye irritation.
Symptoms/effects after ingestion	:	May be fatal if swallowed and enters airways.

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.		
BENZENE-D6 (D, 99.5%) (71-43-2)			
LC50 - Fish [1]	5.3 mg/l Source: ECHA		
LC50 - Other aquatic organisms [1]	230 mg/l Lepomis macrochirus (Bluegill) - 96 h		
EC50 - Crustacea [1]	10 mg/l Source: OECD ECHA		
LC50 - Fish [2]	15 – 32 mg/l Pimephales promelas (Fathead minnow) - 96 h		
LC50 - Other aquatic organisms [2]	9.2 mg/l Daphnia magna (Water flea) - 48 h		
ErC50 algae	29 mg/l		
LOEC (acute)	17.2 mg/l Pimephales promelas (Fathead minnow) - 7 d		
NOEC (chronic)	10.2 mg/l Pimephales promelas (Fathead minnow) - 7 d		
NOEC chronic fish	0.8 mg/l		
12.2. Persistence and degradability			
BENZENE-D6 (D 99 5%) (71-43-2)	RENZENE_D6 (D. 00.5%) (71_43_2)		

Persistence and degradability	Readily biodegradable.		
12.3. Bioaccumulative potential			
· · · ·			
BENZENE-D6 (D, 99.5%) (71-43-2)			
Partition coefficient n-octanol/water (Log Pow)	2.13 Source: CHemIDplus,IPCS		

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12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other adverse effects	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

SECTION 13: Disposal considerations			
13.1. Disposal 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. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.		
Additional information	: Handle empty containers with care because residual vapors are flammable.		
Ecology - waste materials	: Dispose of as unused product. Hazardous waste due to toxicity.		

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number	
DOT NA No UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	: UN1114 : UN1114 : 1114 : 1114
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 Benzene BENZENE BENZENE Benzene
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT) Hazard labels (DOT)	: 3 : 3
TDG Transport hazard class(es) (TDG) Hazard labels (TDG)	

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IMDG Transport hazard class(es) (IMDG) Hazard labels (IMDG)	
IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	: : : :
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT UN-No.(DOT) DOT Special Provisions (49 CFR 172.102)	 UN1114 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 150 : 202 : 242 : 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
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"
TDG UN-No. (TDG) Explosive Limit and Limited Quantity Index Excepted quantities (TDG)	: UN1114 : 1 L : E2

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Passenger Carrying Road Vehicle or Passenger	: 5L
Carrying Railway Vehicle Index	
Emergency Response Guide (ERG) Number	: 130
IMDG	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage)	: S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS
Stowage category (IMDG)	: В
Stowage and handling (IMDG)	: SW2
Flash point (IMDG)	: -11°C c.c.
Properties and observations (IMDG)	: Colourless liquid with a characteristic odour. Flashpoint: -11°C c.c. Explosive limits: 1.4% to 8% Freezing point 5°C, flashes below its freezing point. Immiscible with water. Narcotic. Exposure to this substance may produce serious chronic effects of a toxic nature.
MFAG-No	: 130
ΙΑΤΑ	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
ERG code (IATA)	: 3H

14.7. 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

BENZENE-D6 (D, 99.5%) (71-43-2)				
Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS)				
CERCLA RQ	10 lb			
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health Delayed (chronic) health	hazard hazard		
Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):				
Name	CAS-No.	Listing	Commercial status	Flags
BENZENE-D6 (D, 99.5%)	71-43-2	Present	Active	

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15.2. International regulations

CANADA

BENZENE-D6 (D, 99.5%) (71-43-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

BENZENE-D6 (D, 99.5%) (71-43-2)

Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on TECI (Thailand Existing Chemicals Inventory)

15.3. US State regulations

BENZENE-D6 (D, 99.5%) (71-43-2)		
U.S California - Proposition 65 - Carcinogens List	Yes	
U.S California - Proposition 65 - Developmental Toxicity	Yes	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	Yes	
No significant risk level (NSRL)	6.4 μg/day (oral); 13 μg/day (inhalation)	
Maximum allowable dose level (MADL)	24 μg/day (oral); 49 μg/day (inhalation)	
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List	

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and RegulationsRevision date: 11/30/2022Other information: This product is not radioactive. The data gi

: 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 H-phrases		
H225	Highly flammable liquid and vapor	
H304	May be fatal if swallowed and enters airways	
H315	Causes skin irritation	
H340	May cause genetic defects	
H350	May cause cancer	

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NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.	
NFPA fire hazard	 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions. 	
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.	
Hazard Rating		
Health	: 2 Moderate Hazard - Temporary or minor injury may occur	
Flammability	 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB IC) 	
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.	
Sofaty Data Shoot (SDS) USA		

Safety Data Sheet (SDS), USA

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.