

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 1/3/2011 Revision date: 8/21/2023 Supersedes: 12/18/2012 Version: 3.2

#### **SECTION 1: Identification**

1.1. Identification	
Product form	: Substance
Substance name	: ACETONE-D6 (D, 99.5%) "REAGENT GRADE"
Chemical name	: ACETONE-D6 (D, 99.5%) "REAGENT GRADE"
CAS-No.	: 67-64-1
Product code	: DLM-9RG
Formula	: CD3COCD3
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	
Serious eye damage/eye irritation Category 2A	H319	
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336	
Full text of H statements : see section 16		

2.2. GHS Label elements, including precautionary statements

Highly flammable liquid and vapor Causes serious eye irritation May cause drowsiness or dizziness

GHS US labeling

Hazard pictograms (GHS US)

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

Precautionary statements (GHS US)



- : Danger
- : H225 Highly flammable liquid and vapor
  - H319 Causes serious eye irritation
- H336 May cause drowsiness or dizziness
- : P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. heat, hot surfaces, open flames, sparks
- P233 Keep container tightly closed.
- P240 Ground/Bond container and receiving equipment.
- P241 Use explosion-proof electrical, lighting, ventilating equipment.

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P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.
P264 - Wash Both hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective clothing, protective gloves.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a doctor, a POISON CENTER if you feel unwell.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P370+P378 - In case of fire: Use Alcohol resistant foam, Dry chemical, Carbon dioxide, Water spray to extinguish.
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.
 P501 - Dispose of contents/container to Comply with applicable regulations.

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

Name	Product identifier	%	GHS US classification
ACETONE-D6 (D, 99.5%) "REAGENT GRADE" (Main constituent)	CAS-No.: 67-64-1		Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336

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

#### 3.2. Mixtures

Not applicable

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	<ul> <li>Call a poison center/doctor/physician if you feel unwell.</li> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.</li> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.</li> </ul>	
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.	
4.2. Most important symptoms and effect	ts (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. Damage to kidneys.	

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Symptoms/effects	<ul> <li>May cause drowsiness or dizziness.</li> <li>May be harmful if inhaled. May cause drowsiness or dizziness. May cause irritation or asthma-</li></ul>
Symptoms/effects after inhalation	like symptoms.
Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	<ul> <li>May be harmful in contact with skin. May cause moderate irritation.</li> <li>Causes serious eye irritation.</li> <li>May be harmful if swallowed.</li> </ul>

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures					
5.1. Suitable (and unsuitable) extinguishing	5.1. Suitable (and unsuitable) extinguishing media				
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.				
5.2. Specific hazards arising from the chem	nical				
Fire hazard Hazardous decomposition products in case of fire	<ul><li>Highly flammable liquid and vapor.</li><li>Carbon oxides (CO, CO2).</li></ul>				
5.3. Special protective equipment and prec	autions for fire-fighters				
Firefighting instructions Protection during firefighting	<ul> <li>Do not enter fire area without proper protective equipment, including respiratory protection.</li> <li>Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> </ul>				

Other information	:	Use water spra	ay to	cool	unopened	containers.

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective	6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust, fume, gas, mist, spray, vapors. Avoid contact with skin and eyes.		
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			

Do not allow to enter drains or water courses. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		

For further information refer to section 13.

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SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, spray, vapors. Avoid contact with skin and eyes.	
Hygiene measures	: Wash hands before eating and wash before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, inclu	Iding any incompatibilities	
Technical measures	: Ground/bond container and receiving equipment. Store locked up. Store in tightly closed, leak- proof containers. Keep dry. Store in a well-ventilated place. Keep container tightly closed.	
Storage conditions	Store at room temperature away from light and moisture.	

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

ACETONE-D6 (D, 99.5%) "REAGENT GRADE" (67-64-1)			
USA - ACGIH - Occupational Exposure Limits			
Local name	Acetone		
ACGIH OEL TWA [ppm]	500 ppm Remarks: Central Nervous System impairment. Hematologic effects. Upper Respiratory Tract irritation. Eye irritation. Adopted values or notations enclosed are those for which changes are proposed in the NIC. See Notice of Intended Changes (NIC). Substances for which there is a Biological Exposure Index or Indices (see BEI section). Not classifiable as a human carcinogen. Basis: USA. ACGIH Threshold Limit Values (TLV)		
ACGIH OEL STEL [ppm]	750 ppm Remarks: Central Nervous System impairment. Hematologic effects. Upper Respiratory Tract irritation. Eye irritation. Adopted values or notations enclosed are those for which changes are proposed in the NIC. See Notice of Intended Changes (NIC). Substances for which there is a Biological Exposure Index or Indices (see BEI section). Not classifiable as a human carcinogen. Basis: USA. ACGIH Threshold Limit Values (TLV)		
Remark (ACGIH)	Component: Acetone CAS-No.: 67-64-1 Value: TWA Control parameter: 250 ppm Remarks: Central Nervous System impairment. Upper Respiratory Tract irritation. Eye irritation. 2015 Adoption. Substances for which there is a Biological Exposure Index or Indices (see BEI section). Not classifiable as a human carcinogen. Basis: USA. ACGIH Threshold Limit Values (TLV); Component: Acetone CAS-No.: 67-64-1 Parameters: Acetone Value: 50.0000 mg/l Biological specimen: Urine Remarks: End of shift (As soon as possible after exposure ceases) Basis: ACGIH - Biological Exposure Indices (BEI); Component: Acetone CAS-No.: 67-64-1 Parameters: Acetone Value: 25 mg/l Biological specimen: Urine Remarks: End of shift (As soon as possible after exposure ceases) Basis: ACGIH - Biological Exposure Indices (BEI)		
Regulatory reference	ACGIH 2022		
USA - ACGIH - Biological Exposure Indices	USA - ACGIH - Biological Exposure Indices		
Local name	ACETONE		
BEI	25 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift - Notations: Ns		

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Remark	Component: Acetone CAS-NO.: 67-64-1 Parameters: Acetone Value: 50.0000 mg Biological specimen: Urine Basis: ACGIH - Biological Exposure Indices (BEI) Rema of shift (As soon as possible after exposure ceases).; Component: Acetone CAS-NO 1 Parameters: Acetone Value: 25 mg/l Biological specimen: Urine Basis: ACGIH Biological Exposure Indices (BEI) Remarks: End of shift (As soon as possible after of ceases).			
Regulatory reference	ACGIH 2022			
USA - OSHA - Occupational Exposure Li	mits			
OSHA PEL TWA [1]	2400 mg/m <sup>3</sup> The value in mg/m3 is approximate. Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants			
OSHA PEL TWA [2]	1000 ppm Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants			
OSHA PEL STEL [1]	1780 mg/m <sup>3</sup> Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107)			
OSHA PEL STEL [2]	750 ppm Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107)			
OSHA PEL C	1200 mg/m <sup>3</sup> Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107)			
OSHA PEL C [ppm]	3000 ppm Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107)			
Remark (OSHA)	Component: Acetone CAS-No.: 67-64-1 Parameters: Acetone Value: 500 ppm Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107)			
USA - NIOSH - Occupational Exposure L	imits			
NIOSH REL TWA	590 mg/m <sup>3</sup> Basis: USA. NIOSH Recommended Exposure Limits			
NIOSH REL TWA [ppm]	250 ppm Basis: USA. NIOSH Recommended Exposure Limits			
8.2. Appropriate engineering control	S			
Appropriate engineering controls Environmental exposure controls	<ul><li>Ensure good ventilation of the work station.</li><li>Do not exceed the occupational exposure limits (OEL). Avoid release to the environment.</li></ul>			

#### 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
Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing, gloves and eye/face protection

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#### **Respiratory protection:**

Wear respiratory protection. Approved supplied air respirator

#### Personal protective equipment symbol(s):



#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid, clear.
Color	: Colorless
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 56 °C (133 °F) at 1,013 hPa (760 mmHg)
Flash point	: -17 °C (1.4 °F) - closed cup
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: 533.3 hPa (400 mmHg) at 39.5 °C (103.1 °F); 245.3 hPa (184 mmHg) at 20 °C (68 °F)
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 0.791 g/ml at 25 °C (77 °F)
Molecular mass	: 64.12 g/mol (Labeled)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: -0.24
Auto-ignition temperature	: 465 °C (869 °F)
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: 2 – 13 % (V)
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Highly flammable liquid and vapor.

**10.2. Chemical stability** 

Stable if stored under recommended conditions.

**10.3. Possibility of hazardous reactions** 

May form flammable/explosive vapor-air mixture.

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#### **10.4. Conditions to avoid**

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

**10.5. Incompatible materials** 

Bases. Oxidizing agent. Reducing agents. Reacts violently with. Phosphorus oxychloride.

**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)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
ACETONE-D6 (D, 99.5%) "REAGENT GF	RADE" (67-64-1)
LD50 oral rat	5800 mg/kg Remarks: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Tremor. Behavioral: Headache. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
LC50 Inhalation - Rat	50100 mg/m <sup>3</sup> - 8 h Remarks: Drowsiness, Dizziness, Unconsciousness
ATE US (oral)	5800 mg/kg body weight
ATE US (vapors)	50.1 mg/l/4h
ATE US (dust, mist)	50.1 mg/l/4h
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and	: This information is based on our current knowledge and is intended to describe the product for
symptoms	the purposes of health, safety and environmental requirements only. It should not therefore be
	construed as guaranteeing any specific property of the product. Damage to kidneys.
Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause drowsiness or dizziness. May cause irritation or asthma- like symptoms.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.

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.

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ACETONE-D6 (D, 99.5%) "REAGENT GRADE" (67-64-1)			
LC50 - Fish [1]	5540 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h		
EC50 - Crustacea [1]	8800 mg/l Daphnia magna (Water flea) - 48 h		
ErC50 algae	Remarks: No data available		
12.2. Persistence and degradability			
ACETONE-D6 (D, 99.5%) "REAGENT GRADE" (67-64-1)			
iodegradation 91 % - Readily biodegradable. (OECD Test Guideline 301B)			
12.3. Bioaccumulative potential			
ACETONE-D6 (D, 99.5%) "REAGENT GRADE	" (67-64-1)		
Partition coefficient n-octanol/water (Log Pow)	-0.24		
Bioaccumulative potential	There is no bioaccumulation.		
12.4. Mobility in soil			
No additional information available			
12.5. Other adverse effects			

No additional information available

SECTION 13: Disposal considerations	6
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	<ul> <li>Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.</li> </ul>
Ecology - waste materials	: Dispose of as unused product.

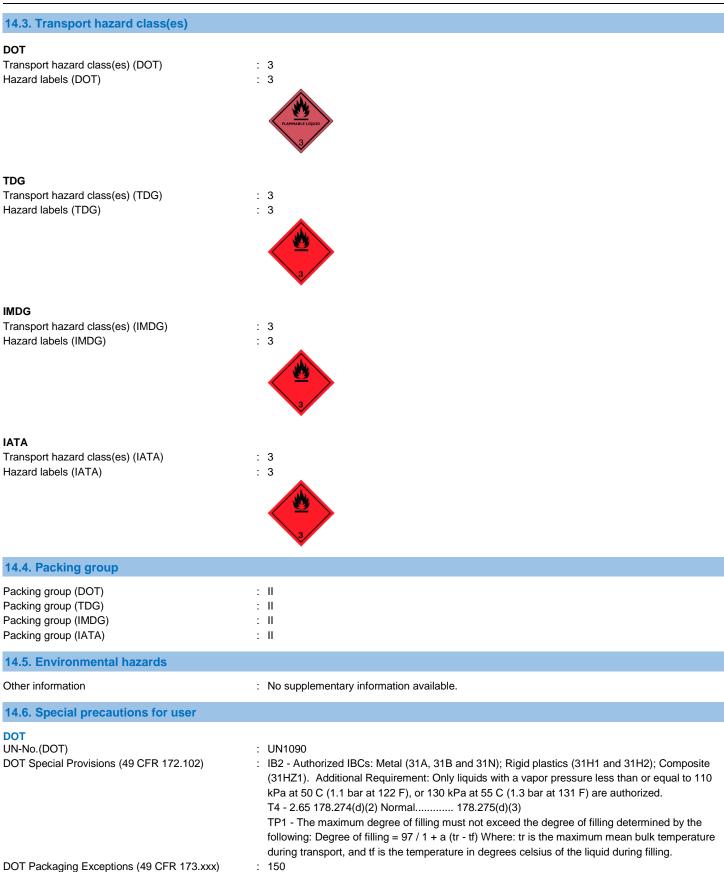
#### **SECTION 14: Transport information**

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number			
DOT NA No UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	: UN1090 : UN1090 : 1090 : 1090		
14.2. UN proper shipping name			
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	: Acetone : ACETONE : ACETONE : Acetone		

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DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Quantity Limitations Passenger aircraft/rail (49	: 5L
CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49	: 60 L
CFR 175.75)	
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.
	. 1014000
UN-No. (TDG)	: UN1090 : 1 L
Explosive Limit and Limited Quantity Index	: F2
Excepted quantities (TDG)	: E2 : Forbidden
Passenger Carrying Ship Index Passenger Carrying Road Vehicle or Passenger	: 5L
Carrying Railway Vehicle Index	. 5L
Emergency Response Guide (ERG) Number	: 127
Emergency Response Guide (ERG) Number	. 127
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)	: E
Flash point (IMDG)	: -20°C to -18°C c.c.
Properties and observations (IMDG)	: Colourless, clear liquid, with a characteristic mint-like odour. Flashpoint: -20°C to -18°C
	c.c. Explosive limits: 2.5% to 13% Miscible with water.
MFAG-No	: 127
	50
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			
ACETONE-D6 (D, 99.5%) "REAGENT GRADE" (67-64-1)			
Not subject to reporting requirements of the United States SARA Section 313			
CERCLA RQ	5000 lb		
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ACETONE-D6 (D, 99.5%) "REAGENT GRADE" (67-64-1)				
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health Delayed (chronic) health			
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
ACETONE-D6 (D, 99.5%) "REAGENT GRADE"	67-64-1	Present	Active	

#### 15.2. International regulations

#### CANADA

ACETONE-D6 (D, 99.5%) "REAGENT GRADE" (67-64-1)	
Listed on the Canadian DSL (Domestic Substances List)	

#### **EU-Regulations**

No additional information available

#### **National regulations**

ACETONE-D6 (D, 99.5%) "REAGENT GRADE" (67-64-1)	
	Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on TECI (Thailand Existing Chemicals Inventory)
	15.3. US State regulations

ACETONE-D6 (D, 99.5%) "REAGENT GRADE	TONE-D6 (D, 99.5%) "REAGENT GRADE" (67-64-1)	
	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**

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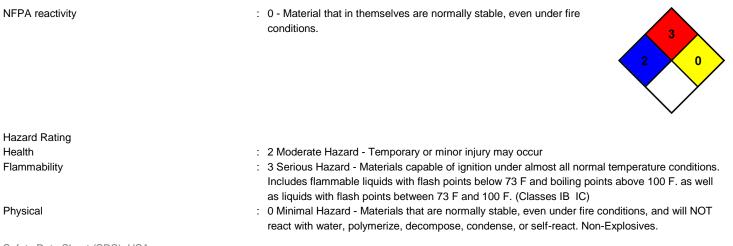
This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled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

Full text of H-phrases	
H225	Highly flammable liquid and vapor
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

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.

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Safety Data Sheet (SDS), USA

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