

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: 07/11/2016

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Supersedes: 07/11/2016

Version: 1.1

1.1. Product identifier	
Product form	: Mixtures
Product name	: MUSK KETONE (T-BUTYL-D9, 98%) 100 UG/ML IN ACETONITRILE
Product code	: DLM-8246-S
1.2. Relevant identified uses of the su	ubstance 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 safe	ty data sheet
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA	
USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> www.isotope.com	
Encourses of a leady on a second sec	
Emergency telephone number	
Emergency numbers: Chemtrec: 1-800-424-9300 (24 hours)	
Emergency numbers: Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)	
Emergency numbers: Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours) SECTION 2: Hazards identification	
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 of	r mixture
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Acute Tox. 4 (Inhalation) H332 Eye Irrit. 2 H319

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; R11 Xn; R20/21/22 Xi; R36 Full text of R-phrases: see section 16

GHS-US classification

H225 Flam. Liq. 2 Acute Tox. 4 (Oral) H302 Acute Tox. 4 (Dermal) H312 Acute Tox. 4 (Inhalation) H332 Eye Irrit. 2A H319

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Lungs, Blood, Kidney, Liver, Central nervous system.

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

P501 - Dispose of contents/container to Comply with applicable regulations

2.3. Other hazards

No additional information available

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SECTION 3: Composition/Information on ingredients

3.1. **Substances**

Not applicable

Manua	Dreduct identifier	0/	Classification according to
Name	Product identifier	%	Classification according to Directive 67/548/EEC
ACETONITRILE UNLABELED	(CAS No) 75-05-8 (EC No) 200-835-2 (EC Index No) 608-001-00-3 (REACH-no) 01-2119471307-38	99.987	F; R11 Xi; R36 Xn; R20/21/22
MUSK KETONE (T-BUTYL-D9, 98%)	(CAS No) 81-14-1 (Unlabeled) (EC No) 201-328-9 (Unlabeled)	0.013	Carc.Cat.3; R40 N; R50/53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ACETONITRILE UNLABELED	(CAS No) 75-05-8 (EC No) 200-835-2 (EC Index No) 608-001-00-3 (REACH-no) 01-2119471307-38	99.987	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319
MUSK KETONE (T-BUTYL-D9, 98%)	(CAS No) 81-14-1 (Unlabeled) (EC No) 201-328-9 (Unlabeled)	0.013	Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Name	Product identifier	%	GHS-US classification
ACETONITRILE UNLABELED	(CAS No) 75-05-8	99.987	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319

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

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Evacuate area.
First-aid measures after inhalation	Move the affected person away from the contaminated area and into the fresh air. If not breathing, give artificial respiration. Call a physician immediately. Get immediate medical advice/attention.
First-aid measures after skin contact	: Wash off with soap and plenty of water. Consult a physician. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a poison center or doctor/physician. Specific measures (see Hazard pictograms (CLP) on this label). Wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Get immediate medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/injuries after inhalation	: Harmful if inhaled. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Harmful if absorbed through skin. Causes skin irritation. Repeated exposure to this material ca result in absorption through skin causing significant health hazard. Harmful in contact with skin
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate medica	al 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	: Highly flammable liquid and vapor.	

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Explosion hazard Reactivity	May form flammable/explosive vapor-air mixture.Vapors may form explosive mixture with air.
5.3. Advice for firefighters	
Firefighting instructions	: Wear a self contained breathing apparatus. Fight fire with normal precautions from a reasonable distance.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.
Other information	: Use water spray to cool unopened containers.
Other information SECTION 6: Accidental release	: Use water spray to cool unopened containers.

6.1.	Personal precautions, protective equ	ıip	ment and emergency procedures
General r	neasures	:	Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
6.1.1.	For non-emergency personnel		
Emergen	cy procedures	:	Use personal protective equipment as required. Avoid breathing vapors, mist, gas. Ensure adequate air ventilation. Evacuate unnecessary personnel. Eliminate all ignition sources if safe to do so. Provide adequate ventilation to minimize dust and/or vapor concentrations. Special attention should be given to low areas/pits where flammable vapors can accumulate.
6.1.2.	For emergency responders		
Protective	e equipment	:	For further information refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions		
Prevent e	entry to sewers and public waters. Do no	t a	llow to enter drains or water courses. Avoid release to the environment.
6.3.	Methods and material for containme	nt	and cleaning up
For conta	ainment	:	Dike and contain spill. Disposal should be in accordance with applicable Federal, State and local regulations.
Methods	for cleaning up	:	Collect spillage. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.
6.4.	Reference to other sections		
No additi	onal information available		
SECTIO	ON 7: Handling and storage		
7.1.	Precautions for safe handling		
Additiona	I hazards when processed	:	Handle empty containers with care because residual vapors are flammable.
Precautio	ons for safe handling	:	No open flames. No smoking. Use only non-sparking tools.
Hygiene	measures	:	Do not eat, drink or smoke when using this product. Wash Both hands thoroughly after handling.
7.2.	Conditions for safe storage, includin	g	any incompatibilities
Technica	Imeasures	:	Keep container tightly closed in a cool, dry and well-ventilated place.
Storage of	conditions	:	Store at room temperature away from light and moisture.
Incompat	ible materials	:	Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection				
8.1. Control parameters				
MUSK KETONE (T-BUTYL-D9, 98%) 100 UG/ML IN ACETONITRILE				
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.0000000 ppm Lower Respiratory Tract irritation. Not classifiable as a human carcinogen.		
ACETONITRILE UNLABELE	ACETONITRILE UNLABELED (75-05-8)			
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.00000000 ppm Lower Respiratory Tract irritation. Not classifiable as a human carcinogen.		
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	34 mg/m ³ Forms Cyanide in the body.		
USA NIOSH	NIOSH REL (TWA) (ppm)	20 ppm Forms Cyanide in the body.		
USA OSHA	OSHA PEL (TWA) (mg/m³)	70 mg/m ³ The value in mg/m3 is approximate.		
USA OSHA	OSHA PEL (TWA) (ppm)	40 ppm The value in mg/m3 is approximate.		

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8.2. Exposure controls		
Appropriate engineering controls	: Handle in accordance with good industrial hygiene and safety procedures.	
Personal protective equipment	: Gas mask with filter type NO at conc. in air >. Protective clothing. Protective goggles. Gloves. Self-contained breathing apparatus.	
Materials for protective clothing	: Wear suitable protective clothing and gloves.	
Hand protection	: Wear suitable protective clothing and gloves.	
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	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.	
Environmental exposure controls	: Avoid release to the environment.	
SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
The properties listed below are for the solvent, the ma	ain component of this mixture.	
Physical state	: Liquid	
Appearance	: Liquid, clear.	

i nyoloal otato	
Appearance	: Liquid, clear.
Molecular mass	: 41.05 g/mol (Labeled)
Color	: Colourless.
Odor	: ether-like.
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -48 °C (-54°F)
Freezing point	: No data available
Boiling point	: 81 - 82 °C (178 - 180 °F)
Flash point	: 2 °C (35.6 °F) - closed cup
Auto-ignition temperature	: 523 °C (973 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapor
Vapor pressure	: 73.18 hPa (54.89 mmHg) at 15°C (59 °F), 119.81 hPa (89.86 mmHg) at 25°C(77 °F)
Relative vapor density at 20 °C	: 1.42 - (Air = 1.0)
Relative density	: No data available
Specific gravity / density	: 0.786 g/ml
Solubility	: Water: 100 %
Log Pow	: -0.34
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	: 4.4 - 16 vol %
9.2. Other information	

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity Vapors may form explosive mixture with air.

10.2. **Chemical stability**

See storage and expiration date on CoA.

Possibility of hazardous reactions 10.3.

Highly flammable liquid and vapor.

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10.4. Conditions to avoid		
Open flame. Direct sunlight.		
10.5. Incompatible materials		
Acids, Bases, Oxidizing agents, Reducing agents, Alkali metals.		
10.6. Hazardous decomposition products		
May release flammable gases.		
SECTION 11: Toxicological informati	on	
11.1. Information on toxicological effects		
Acute toxicity	: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.	
MUSK KETONE (T-BUTYL-D9, 98%) 100 UG/		
LD50 oral rat	2460 mg/kg	
LD50 dermal rabbit	2000 mg/kg	
LC50 inhalation rat (mg/l)	≥ 26.8 mg/l	
LC50 inhalation rat (ppm)	7551 ppm - 8h	
ATE CLP (oral)	500.000 mg/kg body weight	
ATE CLP (dermal)	1100.000 mg/kg body weight	
ATE CLP (gases)	4500.000 ppmV/4h	
ATE CLP (vapors)	11.000 mg/l/4h	
ATE CLP (dust, mist)	1.500 mg/l/4h	
MUSK KETONE (T-BUTYL-D9, 98%) (81-14-1	(Unlabeled))	
LD50 oral rat	> 10000 mg/kg	
LD50 dermal rabbit	> 10000 mg/kg	
ACETONITRILE UNLABELED (75-05-8)		
LD50 oral rat	2460 mg/kg	
LD50 dermal rabbit	2000 mg/kg	
LC50 inhalation rat (mg/l)	≥ 26.8 mg/l	
LC50 inhalation rat (ppm)	7551 ppm - 8h	
ATE CLP (oral)	500.000 mg/kg body weight	
ATE CLP (dermal)	2000.000 mg/kg body weight	
ATE CLP (gases)	4500.000 ppmV/4h	
ATE CLP (vapors)	11.000 mg/l/4h	
ATE CLP (dust, mist)	1.500 mg/l/4h	
Skin corrosion/irritation	: Not classified	
	Skin	
	rabbit No skin irritation	
Serious eye damage/irritation		
Senous eye damage/imiation	: Causes serious eye irritation. rabbit	
	Eyes	
	Irritating to eyes	
Respiratory or skin sensitization	: Did not cause sensitization on laboratory animals. Buehler Test - guinea pig - Did not cause sensitization on laboratory animals. (OECD 406 method)	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: No evidence of carcinogenicity in animal studies (when indicated).	
Reproductive toxicity	: Animal testing did not show any effects on fertility.	
Specific target organ toxicity – single exposure	: Not classified	
	The substance or mixture is not classified as specific target organ toxicant.	
Specific target organ toxicity repeated	: Not classified	
Specific target organ toxicity – repeated exposure		
	The substance or mixture is not classified as specific target organ toxicant.	
Aspiration hazard	: Not classified	
Potential Adverse human health effects and symptoms	: Harmful if swallowed. Harmful in contact with skin.	
Symptoms/injuries after inhalation	: Harmful if inhaled. May cause respiratory irritation.	
Symptoms/injuries after skin contact	: Harmful if absorbed through skin. Causes skin irritation. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.	
Symptoms/injuries after eye contact	: Causes serious eye irritation.	
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Symptoms/injuries after ingestion

: Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information		
12.1. Toxicity		
MUSK KETONE (T-BUTYL-D9, 98%) 100 UG/ML IN ACETONITRILE		
LC50 fish 1	1640 mg/l Pimephales promelas (fathead minnow) - 96h	
EC50 Daphnia 1	3600 mg/l Daphnia magna (Water flea) - 48h	
NOEC (chronic)	640 mg/l Daphnia magna (Water flea) - 14d	
MUSK KETONE (T-BUTYL-D9, 98%) (81-14-1 (Unlabeled))		
LC50 fish 1	> 0.46 mg/l Static Test: Daphna magna (Water Flea) - 48 h (OECD Test Guideline 202)	
EC50 Daphnia 1	0.24 mg/l Growth inhibitor: Pseudokirchneriella subcapitata (green algae) - 72 h (OECD Test Guideline 201)	
NOEC chronic algae	0.088 mg/l Pseudokirchneriella subcapitata (green algae) - 72 h (OECD Test Guideline 201)	
ACETONITRILE UNLABELED (75-05-8)		
LC50 fish 1	1640 mg/l Pimephales promelas (fathead minnow) - 96h	
EC50 Daphnia 1	3600 mg/l Daphnia magna (Water flea) - 48h	
NOEC (chronic)	640 mg/l Daphnia magna (Water flea) - 14d	

MUSK KETONE (T-BUTYL-D9, 98%) 100 U	IG/ML IN ACETONITRILE		
Persistence and degradability Biodegradability Result: - Readily biodegradable.			
MUSK KETONE (T-BUTYL-D9, 98%) (81-14	4-1 (Unlabeled))		
Persistence and degradability	Aerobic - exposure time: 28 d. May cause long-term adverse effects in the environment.		
Biodegradation	< 80 % Not readily biodegradable. (OECD Test Guideline 302)		
ACETONITRILE UNLABELED (75-05-8)			
Persistence and degradability	Biodegradability Result: - Readily biodegradable.		
2.3. Bioaccumulative potential			
MUSK KETONE (T-BUTYL-D9, 98%) 100 U	IG/ML IN ACETONITRILE		
Log Pow	-0.34		
Bioaccumulative potential	No bioaccumulation is to be expected (log Pow <= 4).		
MUSK KETONE (T-BUTYL-D9, 98%) (81-14	4-1 (Unlabeled))		
BCF fish 1	47 μg/l Oncorhynchus mykiss (rainbow trout) - 21 d		
Bioconcentration factor (BCF REACH)	1380		
Log Pow	4.3		
ACETONITRILE UNLABELED (75-05-8)			
Log Pow	-0.34		
Bioaccumulative potential	No bioaccumulation is to be expected (log Pow <= 4).		
2.4. Mobility in soil			
MUSK KETONE (T-BUTYL-D9, 98%) 100 U	IG/ML IN ACETONITRILE		
Ecology - soil Not expected to absorb on soil.			
ACETONITRILE UNLABELED (75-05-8)			
Ecology - soil	Not expected to absorb on soil.		
2.5. Results of PBT and vPvB assess	nent		
No additional information available			
2.6. Other adverse effects			
Other adverse effects	: Avoid release to the environment. Disposal must be done according to official regulations. May cause long lasting harmful effects to aquatic life.		
SECTION 13: Disposal considerati	ons		
3.1. Waste treatment methods			

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	: Dispose of contents/container to
Additional information	: Handle empty containers with care because residual vapors are flammable.

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Ecology - waste materials	: Dispose of as unused product.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / A	DN
14.1. UN number	
UN-No.(DOT)	: 1648
DOT NA no.	UN1648
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Acetonitrile
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid
Packing group (DOT)	: II - Medium Danger
DOT Special Provisions (49 CFR 172.102)	 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. T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
Marine pollutant	: No
14.3. Additional information	
Other information	: No supplementary information available.
Overland transport	
Packing group (ADR)	: 11
Class (ADR)	: 3 - Flammable liquid
Hazard identification number (Kemler No.)	: 33
Classification code (ADR)	: F1

: 3 - Flammable liquids



1

: D/E 11 : •2YE : E2

Orange plates

Hazard labels (ADR)

Tunnel restriction code (ADR)
Limited quantities (ADR)
EAC
Excepted quantities (ADR)

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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	: 127
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
Civil Aeronautics Law	: Flammable liquids
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		
MUSK KETONE (T-BUTYL-D9, 98%) 100 UG/ML IN ACETONITRILE		
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313	
ACETONITRILE UNLABELED (75-05-8)		
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313	

15.2. International regulations

CANADA

MUSK KETONE (T-BUTYL-D9, 98%) 100 UG/ML IN ACETONITRILE	
Listed on the Canadian DSL (Domestic Substances List)	

15.2.1. National regulations

MUSK KETONE (T-BUTYL-D9, 98%) 100 UG/ML IN ACETONITRILE

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

15.3. US State regulations

MUSK KETONE (T-BUTYL-D9, 98%) 100 UG/ML IN ACETONITRILE()		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	
State or local regulations	U.S Massachusetts - Right To Know List	

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MUSK KETONE (T-BUTYL-D9, 98%) 100 UG/ML IN ACETONITRILE()				
			Inow Hazardous Substance Lis	t
		U.S Pennsylvania - RTK (R	ght to Know) List	
ACETONITRILE UNLA	BELED (75-05-8)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
		Female	Male	
No	No	No	No	
ACETONITRILE UNLABELED (75-05-8)				
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

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:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H319	Causes serious eye irritation
H332	Harmful if inhaled
H351	Suspected of causing cancer
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R11	Highly flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R36	Irritating to eyes
R40	Limited evidence of a carcinogenic effect
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
F	Highly flammable
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

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.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard

8246-S

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

Physical

: 0 Minimal Hazard

CIL Mixture 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