



# DAIDZEIN (3',5',8-D3, 97%) 60 UG/ML IN ACETONITRILE-D3

## Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/02/2015

Revision date: 10/01/2017

Supersedes: 03/02/2015

Version: 2.0

### DLM-4461-S

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

### 1.1. Product identifier

Product form : Mixture  
Product name : DAIDZEIN (3',5',8-D3, 97%) 60 UG/ML IN ACETONITRILE-D3  
Product code : DLM-4461-S

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

#### 1.2.1. Relevant identified uses

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

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

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

USA: 1-800-322-1174 Int: 1-978-749-8000  
[cilsales@isotope.com](mailto:cilsales@isotope.com) [www.isotope.com](http://www.isotope.com)

### Emergency telephone number

Emergency numbers:

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

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

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

Full text of 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

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

#### Adverse physicochemical, human health and environmental effects

No additional information available

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### 2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazard statements (CLP) :

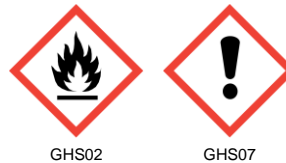
H225 - Highly flammable liquid and vapour  
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled  
H319 - Causes serious eye irritation

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P233 - Keep container tightly closed  
P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical, lighting, ventilating equipment  
P261 - Avoid breathing fume, mist, spray, vapours  
P264 - Wash both hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area

#### GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H225 - Highly flammable liquid and vapour  
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled  
H319 - Causes serious eye irritation

Precautionary statements (GHS-US) :

P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking  
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  
P261 - Avoid breathing fume, mist, spray, vapours  
P264 - Wash Both hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P280 - Wear eye protection, face protection, protective clothing, protective gloves  
P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position 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 POISON CENTER or doctor/physician if you feel unwell  
P330 - If swallowed, rinse mouth  
P337+P313 - If eye irritation persists: 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., Dry chemical, Water spray for extinction  
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

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

# DAIDZEIN (3',5',8-D3, 97%) 60 UG/ML IN ACETONITRILE-D3 DLM-4461-S

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### 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
ACETONITRILE-D3 (D, 99.8%)	(CAS No) 2206-26-0 (EC no) 218-616-5 (EC index no) 608-001-00-3 (Unlabeled) (REACH-no) 01-2119471307-38	99.9929	F; R11 Xi; R36 Xn; R20/21/22
DAIDZEIN (3',5',8-D3, 97%)	(CAS No) 486-66-8 (Unlabeled) (EC no) 207-635-4 (Unlabeled)	0.0071	Xi; R36/38

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ACETONITRILE-D3 (D, 99.8%)	(CAS No) 2206-26-0 (EC no) 218-616-5 (EC index no) 608-001-00-3 (Unlabeled) (REACH-no) 01-2119471307-38	99.9929	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319
DAIDZEIN (3',5',8-D3, 97%)	(CAS No) 486-66-8 (Unlabeled) (EC no) 207-635-4 (Unlabeled)	0.0071	Skin Irrit. 2, H315 Eye Irrit. 2, H319

Name	Product identifier	%	GHS-US classification
ACETONITRILE-D3 (D, 99.8%)	(CAS No) 2206-26-0	99.9929	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-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
First-aid measures after inhalation	: If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash off with soap and plenty of water. Consult a physician.
First-aid measures after eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
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 effects, both acute and delayed

Symptoms/injuries after inhalation	: Harmful if inhaled. May cause respiratory irritation. Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.
Symptoms/injuries after skin contact	: Harmful if absorbed through skin. May cause 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.
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 medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Highly flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
Reactivity	: Vapors may form explosive mixture with air.

### 5.3. Advice for firefighters

Firefighting instructions	: Wear self contained breathing apparatus for fire fighting if necessary.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : 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. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.  
Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed in a cool, dry and well-ventilated place.  
Storage conditions : Store refrigerated (-5 C to 5 C). Protect from light.  
Incompatible materials : Heat sources.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

DAIDZEIN (3',5',8-D3, 97%) 60 UG/ML IN ACETONITRILE-D3		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.0000000000 ppm USA. ACGIH Threshold Limit Values (TLV) Lower Respiratory Tract irritation. Not classifiable as a human carcinogen. Danger of cutaneous absorption
ACETONITRILE-D3 (D, 99.8%) (2206-26-0)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.0000000000 ppm USA. ACGIH Threshold Limit Values (TLV) Lower Respiratory Tract irritation. Not classifiable as a human carcinogen. Danger of cutaneous absorption
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	34 mg/m <sup>3</sup> USA. NIOSH Recommended Exposure Limits. Forms Cyanide in the body.
USA NIOSH	NIOSH REL (TWA) (ppm)	20 ppm USA. NIOSH Recommended Exposure Limits. Forms Cyanide in the body.
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	70 mg/m <sup>3</sup> USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants. The value in mg/m <sup>3</sup> is approximate.
USA OSHA	OSHA PEL (TWA) (ppm)	40.0000000000 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants. The value in mg/m <sup>3</sup> is approximate.

DAIDZEIN (3',5',8-D3, 97%) 60 UG/ML IN ACETONITRILE-D3	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	32.2 mg/kg bodyweight/day Long-term systemic effects
Acute - systemic effects, inhalation	68 mg/m <sup>3</sup> Acute local effects, Acute systemic
Acute - local effects, inhalation	68 mg/m <sup>3</sup> Long-term local effects, Long-term systemic effects
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	22 mg/m <sup>3</sup> Consumers

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Acute - local effects, inhalation	220 mg/m <sup>3</sup> Consumers
Long-term - systemic effects, inhalation	4.8 mg/m <sup>3</sup> Consumers
PNEC (Water)	
PNEC aqua (freshwater)	10 mg/l
PNEC aqua (marine water)	1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	7.53 mg/kg dwt
PNEC (Soil)	
PNEC soil	2.41 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	32 mg/l

### 8.2. Exposure controls

Personal protective equipment : Gas mask with filter type NO at conc. in air >. Protective clothing. Protective goggles. Self-contained breathing apparatus. Gloves.



Hand protection : Wear suitable protective clothing and gloves.  
Eye protection : Wear safety glasses with side shields (or goggles) and a face shield.  
Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Respiratory protection : Wear appropriate mask.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Liquid, clear.
Molecular mass	: 44.07 g/mol (Labeled)
Colour	: Colourless.
Odour	: ether-like.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=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	: 2.0 °C (35.6 °F) - closed cup
Auto-ignition temperature	: 524 °C (975.2 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapour
Vapour pressure	: 73.18 hPa (54.89 mmHg) at 15°C (59 °F) ,121.44 hPa (91.09 mmHg) at 25 °C (77 °F), 413.23 hPa (309.95 mmHg) at 55 °C (131 °F),98.64 hPa (73.99 mmHg) at 20 °C (68 °F)
Relative vapour density at 20 °C	: 1.42 - (Air = 1.0)
Relative density	: No data available
Density	: 0.786 g/ml at 25 °C (77 °F)
Solubility	: Water: Completely Soluble
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: The substance or mixture is not classified as oxidizing.
Explosive limits	: 3 - 16 vol %

### 9.2. Other information

No additional information available

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### 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.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 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 information

#### 11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

DAIDZEIN (3',5',8-D3, 97%) 60 UG/ML IN ACETONITRILE-D3	
LD50 oral rat	1320 - 6690 mg/kg
LD50 dermal rabbit	> 2000 mg/kg male and female (OECD Test Guideline 402)
LC50 inhalation rat (mg/l)	≥ 26.8 mg/l - 4h
LC50 inhalation rat (ppm)	3587 ppm Mouse - 4h (OECD Test Guideline 403)
ATE CLP (oral)	500.000 mg/kg bodyweight
ATE CLP (dermal)	1100.000 mg/kg bodyweight
ATE CLP (gases)	4500.000 ppmv/4h
ATE CLP (vapours)	11.000 mg/l/4h
ATE CLP (dust,mist)	1.500 mg/l/4h

ACETONITRILE-D3 (D, 99.8%) (2206-26-0)	
LD50 oral rat	1320 - 6690 mg/kg
LD50 dermal rabbit	> 2000 mg/kg male and female (OECD Test Guideline 402)
LC50 inhalation rat (mg/l)	≥ 26.8 mg/l - 4h
LC50 inhalation rat (ppm)	3587 ppm Mouse - 4h (OECD Test Guideline 403)
ATE CLP (oral)	500.000 mg/kg bodyweight
ATE CLP (dermal)	2000.000 mg/kg bodyweight
ATE CLP (gases)	4500.000 ppmv/4h
ATE CLP (vapours)	11.000 mg/l/4h
ATE CLP (dust,mist)	1.500 mg/l/4h

Skin corrosion/irritation	: Not classified Skin - rabbit - No skin irritation - OECD Test Guideline 404
Serious eye damage/irritation	: Causes serious eye irritation. Eyes - rabbit - Irritating to eyes - OECD Test Guideline 405
Respiratory or skin sensitisation	: Did not cause sensitization on laboratory animals. Buehler Test - guinea pig - Did not cause sensitisation on laboratory animals. (OECD Test Guideline 406)
Germ cell mutagenicity	: Hamster Ovary Result: negative. Mutation in mammalian somatic cells. Ames test. Not mutagenic in Ames Test. S. typhimurium result: negative. Hamster - Ovary - Sister chromatid exchange. Result: Equivocal evidence. Mutagenicity (micronucleus test) Mouse Result: Positive results were obtained in some in vivo tests.
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)	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
Specific target organ toxicity (repeated exposure)	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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Symptoms/injuries after inhalation	: Harmful if inhaled. May cause respiratory irritation. Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.
Symptoms/injuries after skin contact	: Harmful if absorbed through skin. May cause 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.
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

DAIDZEIN (3',5',8-D3, 97%) 60 UG/ML IN ACETONITRILE-D3	
LC50 fish 1	1640.00 mg/l Pimephales promelas (fathead minnow) - 96h
EC50 Daphnia 1	3600 mg/l Daphnia magna (Water flea) - 48h (OECD Test Guideline 202)
NOEC (acute)	102 mg/l Oryzias latipes - 21d
NOEC (chronic)	160 mg/l Daphnia magna (Water flea) - 21d

ACETONITRILE-D3 (D, 99.8%) (2206-26-0)	
LC50 fish 1	1640.00 mg/l Pimephales promelas (fathead minnow) - 96h
EC50 Daphnia 1	3600 mg/l Daphnia magna (Water flea) - 48h (OECD Test Guideline 202)
NOEC (acute)	102 mg/l Oryzias latipes - 21d
NOEC (chronic)	160 mg/l Daphnia magna (Water flea) - 21d

### 12.2. Persistence and degradability

DAIDZEIN (3',5',8-D3, 97%) 60 UG/ML IN ACETONITRILE-D3	
BOD (% of ThOD)	84 % ThOD
Biodegradation	Readily biodegradable. (OECD Test Guideline 301C)

DAIDZEIN (3',5',8-D3, 97%) (486-66-8 (Unlabeled))	
Persistence and degradability	Not available.

ACETONITRILE-D3 (D, 99.8%) (2206-26-0)	
BOD (% of ThOD)	84 % ThOD
Biodegradation	Readily biodegradable. (OECD Test Guideline 301C)

### 12.3. Bioaccumulative potential

DAIDZEIN (3',5',8-D3, 97%) 60 UG/ML IN ACETONITRILE-D3	
Bioaccumulative potential	No bioaccumulation is to be expected (log Pow <= 4).

DAIDZEIN (3',5',8-D3, 97%) (486-66-8 (Unlabeled))	
Bioaccumulative potential	Not available.

ACETONITRILE-D3 (D, 99.8%) (2206-26-0)	
Bioaccumulative potential	No bioaccumulation is to be expected (log Pow <= 4).

### 12.4. Mobility in soil

DAIDZEIN (3',5',8-D3, 97%) 60 UG/ML IN ACETONITRILE-D3	
Ecology - soil	Not expected to absorb on soil.

DAIDZEIN (3',5',8-D3, 97%) (486-66-8 (Unlabeled))	
Ecology - soil	Not available.

ACETONITRILE-D3 (D, 99.8%) (2206-26-0)	
Ecology - soil	Not expected to absorb on soil.

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Other adverse effects : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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



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- Waste 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.
- Additional information : Handle empty containers with care because residual vapours are flammable.
- Ecology - waste materials : Dispose of as unused product.

### SECTION 14: Transport information

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

#### 14.1. UN number

- UN-No.(DOT) : 1648  
DOT NA no. UN1648

#### 14.2. UN proper shipping name

- Proper Shipping Name (DOT) : Acetonitrile  
Transport hazard class(es) (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..... 178.275(d)(3)  
TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.
- 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) : II  
Class (ADR) : 3 - Flammable liquids  
Hazard identification number (Kemler No.) : 33  
Classification code (ADR) : F1  
Danger labels (ADR) : 3 - Flammable liquids



- Orange plates : 

- Tunnel restriction code : D/E  
Limited quantities (ADR) : 1I  
EAC code : •2YE  
Excepted quantities (ADR) : E2



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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(Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)

### 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

#### DAIDZEIN (3',5',8-D3, 97%) 60 UG/ML IN ACETONITRILE-D3

Subject to reporting requirements of United States SARA Section 313  
Listed on the United States SARA Section 302

SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard
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#### ACETONITRILE-D3 (D, 99.8%) (2206-26-0)

Subject to reporting requirements of United States SARA Section 313  
Listed on the United States SARA Section 302

SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard
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### 15.2. International regulations

#### CANADA

#### DAIDZEIN (3',5',8-D3, 97%) 60 UG/ML IN ACETONITRILE-D3

Listed on the Canadian DSL (Domestic Substances List)

#### ACETONITRILE-D3 (D, 99.8%) (2206-26-0)

Listed on the Canadian DSL (Domestic Substances List)

#### 15.2.1. National regulations

No additional information available

### 15.3. US State regulations

#### DAIDZEIN (3',5',8-D3, 97%) 60 UG/ML IN ACETONITRILE-D3()

State or local regulations	U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
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#### ACETONITRILE-D3 (D, 99.8%) (2206-26-0)

U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) List

# DAIDZEIN (3',5',8-D3, 97%) 60 UG/ML IN ACETONITRILE-D3 DLM-4461-S

## Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### ACETONITRILE-D3 (D, 99.8%) (2206-26-0)

U.S. - New Jersey - Right to Know Hazardous Substance List

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## 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.

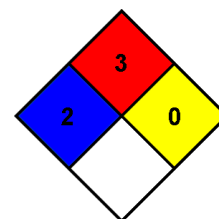
Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
R11	Highly flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R36	Irritating to eyes
R36/38	Irritating to eyes and skin
F	Highly flammable
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

Physical : 0 Minimal Hazard

CIL Multi-Solvent 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*