

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: 01/02/2016 Revision date: 28/01/2020 Supersedes: 01/02/2016 Version: 2.0

DLM-2854-S

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

1.1. Product identifier

Product form : Mixtures

Product name : 1,8-DIMETHYLNAPHTHALENE (D12, 98%) 50 UG/ML IN TOLUENE-D8

Product code : DLM-2854-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 <u>cilsales@isotope.com</u> 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 Skin Irrit. 2 H315 Repr. 2 H361 STOT SE 3 H336 STOT RE 2 H373 Asp. Tox. 1 H304

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 Xi; R38 Xn; R65 Repr.Cat.3; R62 Repr.Cat.3; R63 R67 N; R51/53 Xn; R48/20

Full text of R-phrases: see section 16

GHS-US classification

Flam. Liq. 2 H225 Skin Irrit. 2 H315 Repr. 2 H361 STOT SE 3 H336 STOT RE 2 H373 Asp. Tox. 1 H304 Aquatic Acute 2 H401

Full text of H statements : see section 16

28/01/2020 EN (English US) 1/10

DLM-2854-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

Adverse physicochemical, human health and environmental effects

brain. kidneys. liver. urinary bladder. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs (brain, kidneys, liver, urinary bladder) (if inhaled, if swallowed, in contact with skin). May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Causes skin irritation.

2.2. Label elements

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

Hazard pictograms (CLP)







Signal word (CLP) : Danger

Hazardous ingredients : TOLUENE-D8 (D, 99.5%)

Hazard statements (CLP) : H225 - Highly flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H361 - Suspected of damaging fertility. Suspected of damaging the unborn child. (if inhaled, if

swallowed, in contact with skin)

H373 - May cause damage to organs (liver, kidneys, brain, urinary bladder) through prolonged

or repeated exposure (in contact with skin, if inhaled, if swallowed)

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 P260 - Do not breathe dust, fume, gas, mist, spray, vapors. P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective clothing, protective gloves.

GHS-US labeling

Hazard pictograms (GHS-US)







Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H361 - Suspected of damaging fertility, Suspected of damaging the unborn child. (Dermal,

Inhalation, oral)

H373 - May cause damage to organs (kidneys, liver, urinary bladder, brain) through prolonged

or repeated exposure (Dermal, Inhalation, oral)

H401 - Toxic to aquatic life

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, 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.

P260 - Do not breathe fume, mist, spray, vapors.

P261 - Avoid breathing dust, fume, gas, mist, spray, vapors. P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear eye protection, face protection, protective clothing, protective gloves.

P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER

28/01/2020 EN (English US) 2/10

DLM-2854-9

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

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

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P308+P313 - If exposed or concerned: Get medical advice/attention.

P312 - Call a doctor, a POISON CENTER if you feel unwell

P314 - Get medical advice/attention if you feel unwell.

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+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 hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

PBT: not relevant - no registration required

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
TOLUENE-D8 (D, 99.5%)	(CAS-No.) 2037-26-5 (EC-No.) 218-009-5 (EC Index-No.) 601-021-00-3 (Unlabeled) (REACH-no) 01-2119471310-51	99.9947	F; R11 Xi; R38 Xn; R65 Repr.Cat.3; R62 Repr.Cat.3; R63 R67 N; R51/53 Xn; R48/20
1,8-DIMETHYLNAPHTHALENE (D12, 98%)	(CAS-No.) 569-41-5 (Unlabeled) (EC-No.) 209-314-4 (Unlabeled)	0.0053	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
TOLUENE-D8 (D, 99.5%)	(CAS-No.) 2037-26-5 (EC-No.) 218-009-5 (EC Index-No.) 601-021-00-3 (Unlabeled) (REACH-no) 01-2119471310-51	99.9947	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
1,8-DIMETHYLNAPHTHALENE (D12, 98%)	(CAS-No.) 569-41-5 (Unlabeled) (EC-No.) 209-314-4 (Unlabeled)	0.0053	Not classified
Name	Product identifier	%	GHS-US classification
TOLUENE-D8 (D, 99.5%)	(CAS-No.) 2037-26-5	99.9947	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401
1,8-DIMETHYLNAPHTHALENE (D12, 98%)	(CAS-No.) 569-41-5 (Unlabeled)	0.0053	Not classified

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 : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : 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.

28/01/2020 EN (English US) 3/10

DLM-2854-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

First-aid measures after skin contact : 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: Wash with plenty of soap and water. Get medical advice/attention. Specific treatment (see Hazard pictograms (CLP) on this label). Gently wash with plenty of soap and water.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

First-aid measures after ingestion : Immediately call a poison center or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Suspected of damaging fertility. Suspected of damaging the unborn child. (in contact with skin,

: Harmful if inhaled. May cause drowsiness or dizziness.

if inhaled, if swallowed). Causes damage to organs (brain, kidneys, liver, urinary bladder) (in

contact with skin, if inhaled, if swallowed).

Symptoms/effects after skin contact : Harmful in contact with skin. Causes skin irritation. Repeated exposure to this material can

result in absorption through skin causing significant health hazard.

Symptoms/effects after eye contact : May cause eye irritation.

Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. Risk of lung edema.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

Symptoms/effects after inhalation

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 vapor.

Explosion hazard : May form flammable/explosive vapor-air mixture.

Reactivity : Vapors may form explosive mixture with air.

5.3. Advice for firefighters

Firefighting instructions : Use water spray to cool unopened containers.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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, and ensure adequate ventilation. Avoid breathing vapors,

mist, gas. Remove ignition sources, and move personnel to safe area. Vapors accumulate

especially in low areas to form explosive concentrations.

6.1.2. For emergency responders

Protective equipment : Avoid breathing dust, mist or spray.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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 vapors are flammable.

Precautions for safe handling : 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. Use only outdoors or in a well-ventilated area. Avoid breathing dust, mist or spray.

Hygiene measures : Wash Both hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical equipment.

28/01/2020 EN (English US) 4/10

DLM-2854-9

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

Storage conditions : Store at room temperature away from light and moisture.

Incompatible materials : Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1,8-DIMETHYLNAPHTHALENE (D12, 98%) 50 UG/ML IN TOLUENE-D8		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.00000000 ppm Visual impairment, Female reproductive, Pregnancy loss
TOLUENE-D8 (D, 99.5%) (2037-26-5)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.00000000 ppm Visual impairment, Female reproductive, Pregnancy loss
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (STEL) (ppm)	150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000

8.2. Exposure controls

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.









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 NIOSH/MSHA approved respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

The properties listed below are for the solvent, the main component of this mixture.

Physical state : Liquid

Appearance : Liquid

Molecular mass : 100.19 g/mol (Labeled)

Color : Colorless

Odor : No data available
Odor threshold : No data available
pH : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : -93 °C (-135 °F)
Freezing point : No data available

Boiling point : $110 - 111 \,^{\circ}\text{C} \, (230 - 232 \,^{\circ}\text{F})$ Flash point : $4 \,^{\circ}\text{C} \, (39.2 \,^{\circ}\text{F}) - \text{closed cup}$

Auto-ignition temperature : 535 °C (995 °F)

Decomposition temperature : No data available

Flammability (solid, gas) : Highly flammable liquid and vapor

Vapor pressure : 29.1 hPa (21.8 mmHg) at 20.0 °C (68.0 °F)

Relative vapor density at 20 °C : No data available Relative density : No data available

Specific gravity / density : 0.865 g/ml at 25 °C (77 °F)

Solubility : No data available
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

28/01/2020 EN (English US) 5/10

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

Explosive properties : No data available Oxidizing properties : No data available **Explosion limits** : 1.2 - 7 % (V)

Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity 10.1.

Vapors may form explosive mixture with air.

Chemical stability

See storage and expiration date on CoA.

Possibility of hazardous reactions

No additional information available

Conditions to avoid

Open flame. Direct sunlight.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information

Information on toxicological effects

: Not classified Acute toxicity

1,8-DIMETHYLNAPHTHALENE (D12, 98%) 50 UG/ML IN TOLUENE-D8	
LD50 oral rat	> 5580 mg/kg
LD50 dermal rabbit	12196 mg/kg
LC50 inhalation rat (mg/l)	12500 - 28800 mg/m³ 4 h
ATE CLP (dermal)	12196.000 mg/kg body weight
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	12.500 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h

TOLUENE-D8 (D, 99.5%) (2037-26-5)		
LD50 oral rat	> 5580 mg/kg	
LD50 dermal rabbit	12196 mg/kg	
LC50 inhalation rat (mg/l)	12500 - 28800 mg/m³ 4 h	
ATE CLP (dermal)	12196.000 mg/kg body weight	
ATE CLP (vapors)	12.500 mg/l/4h	
ATE CLP (dust, mist)	12.500 mg/l/4h	

Skin corrosion/irritation : Causes skin irritation.

Skin - rabbit - Skin irritation - 24 h

: Not classified Serious eye damage/irritation Respiratory or skin sensitization Not available Germ cell mutagenicity Not classified Carcinogenicity : Not classified

Reproductive toxicity : Experiments have shown reproductive toxicity effects in male and female laboratory animals.

Specific target organ toxicity - single exposure : May cause drowsiness or dizziness.

exposure

Specific target organ toxicity - repeated May cause damage to organs (liver, kidneys, brain, urinary bladder) through prolonged or repeated exposure (in contact with skin, if inhaled, if swallowed).

Aspiration hazard : May be fatal if swallowed and enters airways.

Potential Adverse human health effects and

symptoms

Lung irritation, chest pain, pulmonay edema, Inhalation sudies have shown the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotom in animals. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

IARC group

Symptoms/effects after inhalation : Harmful if inhaled. May cause drowsiness or dizziness.

28/01/2020 EN (English US) 6/10

DLM-2854-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

Symptoms/effects after skin contact

 $: \ \ \text{Harmful in contact with skin. Causes skin irritation. Repeated exposure to this material can}$

result in absorption through skin causing significant health hazard.

Symptoms/effects after eye contact

: May cause eye irritation.

Symptoms/effects after ingestion

: May be fatal if swallowed and enters airways. Risk of lung edema.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life.

1,8-DIMETHYLNAPHTHALENE (D12, 98%) 50 UG/ML IN TOLUENE-D8		
LC50 fish 1	74 - 340 mg/l Lepomis macrochirus (Bluegill) - 96h	
LC50 other aquatic organisms 1 10 mg/l Pseudokirchneriella subcapitata (Green algae) - 24 h		
EC50 Daphnia 1	8 mg/l Daphnia magna (Water flea) - 24h	
LC50 fish 2 7.63 mg/l Oncorhynchus mykiss (Rainbow trout) - 96 h EC50 Daphnia 2 6 mg/l Daphnia magna (Water flea) - Immobilization - 48 h ErC50 (algae) 245 mg/l Chlorella vulgaris (Fresh water algae) - 24 h LOEC (chronic) 8.04 mg/l Pimephales promelas (Fathead minnow) - 7 d NOEC (chronic) 5.44 mg/l Pimephales promelas (fathead minnow) - 7 d		

	- 3 - 1 1	
TOLUENE-D8 (D, 99.5%) (2037-26-5)		
LC50 fish 1	74 - 340 mg/l Lepomis macrochirus (Bluegill) - 96h	
LC50 other aquatic organisms 1	10 mg/l Pseudokirchneriella subcapitata (Green algae) - 24 h	
EC50 Daphnia 1	8 mg/l Daphnia magna (Water flea) - 24h	
LC50 fish 2	7.63 mg/l Oncorhynchus mykiss (Rainbow trout) - 96 h	
EC50 Daphnia 2	6 mg/l Daphnia magna (Water flea) - Immobilization - 48 h	
ErC50 (algae)	245 mg/l Chlorella vulgaris (Fresh water algae) - 24 h	
LOEC (chronic)	8.04 mg/l Pimephales promelas (Fathead minnow) - 7 d	
NOEC (chronic)	5.44 mg/l Pimephales promelas (fathead minnow) - 7 d	

12.2. Persistence and degradability

1,8-DIMETHYLNAPHTHALENE (D12, 98%) (569-41-5 (Unlabeled))	
Persistence and degradability	Not available.

12.3. Bioaccumulative potential

1,8-DIMETHYLNAPHTHALENE (D12, 98%) (569	9-41-5 (Unlabeled))	
Bioaccumulative potential	Not available.	

12.4. Mobility in soil

1,8-DIMETHYLNAPHTHALENE (D12, 98%) (569-41-5 (Unlabele			
	Ecology - soil	Not available.	

12.5. Results of PBT and vPvB assessment

1,8-DIMETHYLNAPHTHALENE (D12, 98%) 50 UG/ML IN TOLUENE-D8

PBT: not relevant - no registration required

12.6. 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. 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 in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Hazardous waste due to toxicity.

SECTION 14: Transport information

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

14.1. UN number

UN-No.(DOT) : 1294 DOT NA no. UN1294

28/01/2020 EN (English US) 7/10

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

UN proper shipping name

Proper Shipping Name (DOT) : Toluene

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



: II - Medium Danger Packing group (DOT)

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.

T4 - 2.65 178.274(d)(2) Normal............ 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature

during transport, and tf is the temperature in degrees celsius of the liquid during filling.

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

Additional information 14.3.

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

Hazard labels (ADR) : 3 - Flammable liquids



Orange plates

Tunnel restriction code (ADR) : D/E Limited quantities (ADR) 11 : 3YE Excepted quantities (ADR) : E2

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.

MFAG-No : 130

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

Civil Aeronautics Law : Flammable liquids

28/01/2020 EN (English US) 8/10

DLM-2854-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

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

1,8-DIMETHYLNAPHTHALENE (D12, 98%) 50 UG/ML IN TOLUENE-D8			
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		
1,8-DIMETHYLNAPHTHALENE (D12, 98%) (569-41-5 (Unlabeled))			
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 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313		
TOLUENE-D8 (D, 99.5%) (2037-26-5)			
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		

Subject to reporting requirements of United States SARA Section 313

Immediate (acute) health hazard Delayed (chronic) health hazard

15.2. International regulations

SARA Section 313 - Emission Reporting

CANADA

1,8-DIMETHYLNAPHTHALENE (D12, 98%) 50 UG/ML IN TOLUENE-D8

Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

1,8-DIMETHYLNAPHTHALENE (D12, 98%) 50 UG/ML IN TOLUENE-D8()		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	Yes	
U.S California - Proposition 65 - Reproductive Toxicity - Female	Yes	
U.S California - Proposition 65 - Reproductive Toxicity - Male	Yes	
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	
4.0 DIMETRINI NADUTUAL ENE (DAO 2007) (FOO 44 F (Helekeles))		

1,8-DIMETHYLNAPHTHALENE (D12, 98%) (569-41-5 (Unlabeled))					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	
No	No	No	No		

TOLUENE-D8 (D, 99.5%) (2037-26-5)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	Yes	No	No	

28/01/2020 EN (English US) 9/10

DLM-2854-9

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

1,8-DIMETHYLNAPHTHALENE (D12, 98%) (569-41-5 (Unlabeled))

State or local regulations

- 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.

TOLUENE-D8 (D, 99.5%) (2037-26-5)

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:

text of it, if al	text of te, it and bott philages.		
Asp. Tox. 1	Aspiration hazard Category 1		
Flam. Liq. 2	Flammable liquids Category 2		
Repr. 2	Reproductive toxicity Category 2		
Skin Irrit. 2	Skin corrosion/irritation Category 2		
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2		
STOT SE 3	Specific target organ toxicity (single exposure) Category 3		
H225	Highly flammable liquid and vapor		
H304	May be fatal if swallowed and enters airways		
H315	Causes skin irritation		
H336	May cause drowsiness or dizziness		
H361	Suspected of damaging fertility or the unborn child		
H373	May cause damage to organs through prolonged or repeated exposure		
R11	Highly flammable		
R38	Irritating to skin		
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation		
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment		
R62	Possible risk of impaired fertility		
R63	Possible risk of harm to the unborn child		
R65	Harmful: may cause lung damage if swallowed		
R67	Vapors may cause drowsiness and dizziness		
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.



Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 3 Serious Hazard
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

28/01/2020 EN (English US) 10/10