



# N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2

## 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: 10/03/2015

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Version: 1.1

DLM-3098-S

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

### 1.1. Product identifier

Product form : Mixtures  
Product name : N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2  
Product code : DLM-3098-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]

Acute Tox. 4 (Oral) H302  
Acute Tox. 4 (Dermal) H312  
Skin Irrit. 2 H315  
Eye Irrit. 2 H319  
Carc. 2 H351  
STOT SE 3 H335  
STOT SE 3 H336  
STOT RE 2 H373

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

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc. Cat. 3; R40  
T; R39/23/24/25  
Xn; R22  
Xi; R36/38

Full text of R-phrases: see section 16

#### GHS-US classification

Acute Tox. 4 (Oral) H302  
Acute Tox. 4 (Dermal) H312  
Skin Irrit. 2 H315  
Eye Irrit. 2A H319  
Carc. 2 H351  
STOT SE 3 H336  
STOT SE 3 H335  
STOT RE 2 H373

Full text of H statements : see section 16

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DLM-3098-S

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### Adverse physicochemical, human health and environmental effects

Liver, Pancreas, Blood, Central nervous system, Heart, Kidney. Inhalation: anesthetic effects, nausea and drunkenness. Suspected of causing cancer (in contact with skin, if swallowed, if inhaled). May cause damage to organs (liver, blood, central nervous system) through prolonged or repeated exposure (if swallowed, if inhaled). May cause drowsiness or dizziness. Harmful in contact with skin. Harmful if swallowed. May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation.

## 2.2. Label elements

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

Hazard pictograms (CLP)



GHS08

GHS07

Signal word (CLP)

: Warning

Hazardous ingredients

: METHYLENE CHLORIDE-D2 (D, 99.8%)

Hazard statements (CLP)

: H302+H312 - Harmful if swallowed or in contact with skin  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H351 - Suspected of causing cancer (in contact with skin, if inhaled, if swallowed)  
H373 - May cause damage to organs (liver, blood, central nervous system, heart, kidneys, pancreas) through prolonged or repeated exposure (in contact with skin, if inhaled, if swallowed)

Precautionary statements (CLP)

: P260 - Do not breathe fume, mist, vapors, spray.  
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 if you feel unwell.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

### GHS-US labeling

Hazard pictograms (GHS-US)



GHS08

GHS07

Signal word (GHS-US)

: Warning

Hazard statements (GHS-US)

: H302+H312 - Harmful if swallowed or in contact with skin  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H351 - Suspected of causing cancer (Dermal, Inhalation, oral)  
H373 - May cause damage to organs (eyes) through prolonged or repeated exposure (Dermal, Inhalation, oral)

Precautionary statements (GHS-US)

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe dust, fume, gas, mist, spray, vapors.  
P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.  
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 face protection, eye protection, protective clothing, protective gloves.  
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell  
P302+P352 - If on skin: Wash with plenty of water  
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  
P308+P313 - If exposed or concerned: Get medical advice/attention.

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DLM-3098-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

P312 - Call a poison center or doctor if you feel unwell  
P314 - Get medical advice/attention if you feel unwell.  
P321 - Specific treatment (see Hazard pictograms (CLP) on this label)  
P330 - Rinse mouth.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362 - Take off contaminated clothing and wash before reuse.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container to Comply with applicable regulations

### 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
METHYLENE CHLORIDE-D2 (D, 99.8%)	(CAS-No.) 1665-00-5 (EC-No.) 216-776-0 (Unlabeled) (EC Index-No.) 602-004-00-3 (Unlabeled) (REACH-no) 01-2119480404-41	99.9266	Xi; R36/37/38 Carc.Cat.3; R40 T; R48/25 R67 Xn; R21/22
N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%)	(CAS-No.) 86-30-6 (Unlabeled) (EC-No.) 201-663-0 (Unlabeled)	0.0734	Xn; R22 N; R51/53

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
METHYLENE CHLORIDE-D2 (D, 99.8%)	(CAS-No.) 1665-00-5 (EC-No.) 216-776-0 (Unlabeled) (EC Index-No.) 602-004-00-3 (Unlabeled) (REACH-no) 01-2119480404-41	99.9266	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 STOT SE 3, H335 STOT RE 2, H373
N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%)	(CAS-No.) 86-30-6 (Unlabeled) (EC-No.) 201-663-0 (Unlabeled)	0.0734	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411

Name	Product identifier	%	GHS-US classification
METHYLENE CHLORIDE-D2 (D, 99.8%)	(CAS-No.) 1665-00-5	99.9266	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 3, H336 STOT SE 3, H335 STOT RE 2, H373

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. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Rinse mouth. Call a poison center/doctor/physician if you feel unwell.

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DLM-3098-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

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

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: Harmful in contact with skin. Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Harmful if swallowed.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

### 5.3. Advice for firefighters

Firefighting instructions	: Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Wear recommended personal protective equipment.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Use personal protective equipment as required. Ventilate spillage area. Do not breathe dust, fume, gas, mist, spray, vapors. Avoid contact with skin, eyes and clothing.

#### 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

Avoid release to the environment. 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	: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
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.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust, fume, spray, gas, mist, vapors. Use only outdoors or in a well-ventilated area. Do not get in eyes, on skin, or on clothing.
Hygiene measures	: Wash contaminated clothing 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, including any incompatibilities

Technical measures	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Containers which are opened should be properly resealed and kept upright to prevent leakage.
Storage conditions	: Store refrigerated (-5°C to 5°C). Protect from light.

### 7.3. Specific end use(s)

No additional information available

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DLM-3098-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

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Central Nervous system impairment. Carboxyhemoglobinemia. Substances for which there is a Biological Exposure Index or Indices (see BEI section). Confirmed animal carcinogen with unknown relevance to humans. Potential Occupational Carcinogen See Appendix A.

METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Central Nervous system impairment. Carboxyhemoglobinemia. Substances for which there is a Biological Exposure Index or Indices (see BEI section). Confirmed animal carcinogen with unknown relevance to humans. Potential Occupational Carcinogen See Appendix A.
USA OSHA	OSHA PEL (STEL) (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup> Basis: California permissible exposure limits for chemical contaminants (Title 8, Article 107) see section 5202
USA OSHA	OSHA PEL (STEL) (ppm)	125 ppm Basis: OSHA Specially Regulated Chemicals/Carcinogens California permissible exposure limits for chemical contaminants (Title 8, Article 107) see section 5202
USA OSHA	OSHA PEL (Ceiling) (mg/m <sup>3</sup> )	87 mg/m <sup>3</sup> Basis: California permissible exposure limits for chemical contaminants (Title 8, Article 107) see section 5202
USA OSHA	OSHA PEL (Ceiling) (ppm)	25 ppm Basis: OSHA Specially Regulated Chemicals/Carcinogens California permissible exposure limits for chemical contaminants (Title 8, Article 107) see section 5202
USA OSHA	Remark (OSHA)	Substance listed; for mor information see OSHA document 1910.1052. See Table Z-2. This section applies to all occupational exposures to methylene chloride (MC). Chemical Abstracts Service Registry Number 75-09-2, in general industry, construction and shipyard employment. Methylene chloride (MC) means an organic compound with chemical formula CH <sub>2</sub> Cl <sub>2</sub> . Its Chemical Abstracts Service Registry Number is 75-09-2. Its molecular weight is 8.9 g/mole. OSHA Specially regulated carcinogen.

N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	706 mg/m <sup>3</sup>
Acute - local effects, inhalation	353 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	4750 mg/kg bodyweight/day
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	353 mg/m <sup>3</sup>
Acute - local effects, inhalation	88.3 mg/m <sup>3</sup>
Long-term - systemic effects,oral	0.06 mg/kg bodyweight/day
Long-term - systemic effects, dermal	2395 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.54 mg/l
PNEC aqua (marine water)	0.194 mg/l
PNEC aqua (intermittent, freshwater)	0.27 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	4.47 mg/kg dwt
PNEC sediment (marine water)	1.61 mg/kg dwt
PNEC (Soil)	

# N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2

DLM-3098-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

### N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2

PNEC soil 0.583 mg/kg dwt

#### PNEC (STP)

PNEC sewage treatment plant 26 mg/l

### 8.2. Exposure controls

Appropriate engineering controls : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Ensure good ventilation of the work station.

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



Materials for protective clothing : Wear suitable protective clothing and gloves.

Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Wear eye protection. Chemical goggles or face shield with safety glasses. Safety glasses.

Skin and body protection : Wear suitable protective clothing, gloves and eye/face protection.

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

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 main component of this mixture.

Physical state	: Liquid
Appearance	: Liquid
Molecular mass	: 86.94 g/mol (Labeled)
Color	: Colorless
Odor	: Sweet, Penetrating, Ether-like odor
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: 0.71
Melting point	: -97 °C (-143 °F)
Freezing point	: No data available
Boiling point	: 39.8 - 40 °C (103.6 - 104 °F)
Flash point	: No data available
Auto-ignition temperature	: 556.1 °C (1,033.0 °F); 622.0 °C (1,223.6 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 470.9 hPa (353.2 mmHg) at 20 °C (68 °F)
Relative vapor density at 20 °C	: 2.93 - (Air = 1.0)
Relative density	: No data available
Specific gravity / density	: 1.325 g/ml at 25 °C (77 °F)
Solubility	: Water: Slightly soluble
Log Pow	: 1.25
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	: 12 - 19 % (V)

### 9.2. Other information

No additional information available

# N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2

DLM-3098-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

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

See storage and expiration date on CoA.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Heat. Sparks. Open flame. Direct sunlight. Protect from sunlight.

#### 10.5. Incompatible materials

Alkali metals. Aluminum. Strong oxidizing agents. Bases. Magnesium. Strong acids. Strong bases. Vinyl.

#### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Hydrogen chloride.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Dermal: Harmful in contact with skin.

N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg (OECD Test Guideline 402)
LC50 inhalation rat (mg/l)	52000 mg/m <sup>3</sup>
ATE CLP (oral)	500.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (vapors)	52.000 mg/l/4h
ATE CLP (dust, mist)	52.000 mg/l/4h

METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg (OECD Test Guideline 402)
LC50 inhalation rat (mg/l)	52000 mg/m <sup>3</sup>
ATE CLP (oral)	500.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (vapors)	52.000 mg/l/4h
ATE CLP (dust, mist)	52.000 mg/l/4h

N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) (86-30-6 (Unlabeled))	
LD50 oral rat	1825 mg/kg Remarks: Cyanosis
LD50 dermal rabbit	> 7940 mg/kg Remarks: Behavioral: Food intake (animal). Behavioral: Change in motor activity (specific assay).
ATE CLP (oral)	1825.000 mg/kg body weight

Skin corrosion/irritation	: Skin - Rabbit - Irritating to skin - Result: 24 Hours
Serious eye damage/irritation	: Eyes - Rabbit - Result - Irritating to eyes - 24 Hours - (Draize Test)
Respiratory or skin sensitization	: Not available
Germ cell mutagenicity	: Rat - DNA Damage
Carcinogenicity	: Carcinogenicity - Rat - Inhalation - Tumorigenic: Carcinogenic by RTECS criteria - Endocrine system - Tumors - Limited evidence of a carcinogenic effect - Suspected human carcinogens
Reproductive toxicity	: Not available
Specific target organ toxicity – single exposure	: May cause respiratory irritation. May cause drowsiness or dizziness
Specific target organ toxicity – repeated exposure	: Inhalation. May cause damage to organs (central nervous system) through prolonged or repeated exposure (Inhalation). Oral
Aspiration hazard	: Not classified
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. stomach.
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: Harmful in contact with skin. Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.

# N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2

DLM-3098-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 ingestion : 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.

<b>N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2</b>	
LC50 fish 1	193 mg/l Pimephales promelas (fathead minnow) - 96 h
EC50 Daphnia 1	1682 mg/l Daphnia magna (Water flea) - 48 h
NOEC (chronic)	130 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h

<b>METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)</b>	
LC50 fish 1	193 mg/l Pimephales promelas (fathead minnow) - 96 h
EC50 Daphnia 1	1682 mg/l Daphnia magna (Water flea) - 48 h
NOEC (chronic)	130 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h

<b>N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) (86-30-6 (Unlabeled))</b>	
LC50 fish 1	5.8 mg/l Lepomis macrochirus (Bluegill) - 96 h
EC50 Daphnia 1	7.8 mg/l Daphnia magna (Water flea) - 48 h

#### 12.2. Persistence and degradability

<b>N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2</b>	
Biodegradation	< 26 % - Not readily biodegradable. (OECD Test Guideline 301C)

<b>METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)</b>	
Biodegradation	< 26 % - Not readily biodegradable. (OECD Test Guideline 301C)

<b>N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) (86-30-6 (Unlabeled))</b>	
Persistence and degradability	Not available.

#### 12.3. Bioaccumulative potential

<b>N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2</b>	
Log Pow	1.25
Bioaccumulative potential	Does not accumulate in organisms.

<b>METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)</b>	
Log Pow	1.25
Bioaccumulative potential	Does not accumulate in organisms.

<b>N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) (86-30-6 (Unlabeled))</b>	
BCF fish 1	0.00921 mg/l Lepomis macrochirus (Bluegill) - 14 d
Bioconcentration factor (BCF REACH)	217
Log Pow	3.13

#### 12.4. Mobility in soil

<b>N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2</b>	
Ecology - soil	Not available.

<b>METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)</b>	
Ecology - soil	Not available.

<b>N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) (86-30-6 (Unlabeled))</b>	
Ecology - soil	Not available.

#### 12.5. Results of PBT and vPvB assessment

<b>N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2</b>	
PBT: not relevant – no registration required	

<b>METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)</b>	
PBT: not relevant – no registration required	

#### 12.6. Other adverse effects

Other adverse effects : Not available.



# N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2

DLM-3098-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

### 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 : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
- 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) : 1593
- DOT NA no. UN1593

#### 14.2. UN proper shipping name

- Proper Shipping Name (DOT) : Dichloromethane
- Class (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
- Hazard labels (DOT) : 6.1 - Poison



- Packing group (DOT) : III - Minor Danger
- DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).  
IP8 - Ammonia solutions may be transported in rigid or composite plastic IBCs (31H1, 31H2 and 31HZ1) that have successfully passed, without leakage or permanent deformation, the hydrostatic test specified in 178.814 of this subchapter at a test pressure that is not less than 1.5 times the vapor pressure of the contents at 55 C (131 F).  
N36 - Aluminum or aluminum alloy construction materials are permitted only for halogenated hydrocarbons that will not react with aluminum.  
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) : 153
- DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
- DOT Packaging Bulk (49 CFR 173.xxx) : 241
- Marine pollutant : No

#### 14.3. Additional information

- Other information : No supplementary information available.

#### Overland transport

- Packing group (ADR) : III
- Class (ADR) : 6.1 - Toxic substances
- Hazard identification number (Kemler No.) : 60
- Classification code (ADR) : T1

# N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2

DLM-3098-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

Hazard labels (ADR) : 6.1 - Toxic substances



Orange plates :



Tunnel restriction code (ADR) : E

Limited quantities (ADR) : 5l

EAC : 2Z

Excepted quantities (ADR) : E1

### Transport by sea

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

MFAG-No : 160

### Air transport

DOT Quantity Limitations Passenger aircraft/rail : 60 L  
(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L  
CFR 175.75)

Civil Aeronautics Law : Toxic and infectious substances/Toxic substances

### 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

N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2	
Subject to reporting requirements of United States SARA Section 313	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)	
Subject to reporting requirements of United States SARA Section 313	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

### 15.2. International regulations

#### CANADA

N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2	
Listed on the Canadian DSL (Domestic Substances List)	
METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)	
Listed on the Canadian DSL (Domestic Substances List)	

# N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2

DLM-3098-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

### 15.2.1. National regulations

No additional information available

### 15.3. US State regulations

N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2()	
U.S. - California - Proposition 65 - Carcinogens List	Yes
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 U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List

METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)				
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)
Yes	No	No	No	

METHYLENE CHLORIDE-D2 (D, 99.8%) (1665-00-5)	
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	

## 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 (Oral)	Acute toxicity (oral) Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2	Serious eye damage/eye irritation 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
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects
R21/22	Harmful in contact with skin and if swallowed
R22	Harmful if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin
R36/38	Irritating to eyes and skin
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R40	Limited evidence of a carcinogenic effect
R48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

# N-NITROSODIPHENYLAMINE (2,2',4,4',6,6'-D6, 96%) 1 MG/ML IN METHYLENE CHLORIDE-D2

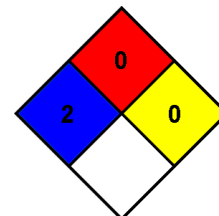
DLM-3098-S

## 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

R67	Vapors may cause drowsiness and dizziness
N	Dangerous for the environment
T	Toxic
Xi	Irritant
Xn	Harmful

- NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
- NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
- 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 : 0 Minimal 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*